

MICHIGAN STATE POLICE FORENSIC SCIENCE DIVISION

Validation of LCMSMS-21-1

Confirmatory Analysis

(cannabinoids)

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VALIDATION PLAN

LC-Cannabinoid Validation Plan

This document is the validation plan for the LC-Cannabinoid method validation for LCMSMS 21-1 and LCMSMS 22-1.

The scope of testing and other parameters along with acceptable levels for this validation is outlined in this document. A proposal for performing each of these studies to determine if each parameter is met is then explained.

This validation plan was created following the ANSI/ASB Standard 036, *Standard Practices for Method Validation in Forensic Toxicology* and section 5.3 of the Toxicology quality manual.

Panel name: LC-Cannabinoid

Scope:

Drug Name	Quantitation group	Isotopically labeled internal standard
(-)-Δ9-THC	A	(-)-Δ9-THC-D3
(-)-Δ8-THC	A	(-)-Δ8-THC-D3
(±)-11-Hydroxy-Δ9-THC (THC-OH)	B	(±)-11-Hydroxy-Δ9-THC-D3
(±)-11-nor-9-Carboxy-Δ9-THC (THC-COOH)	C	(±)-11-nor-9-Carboxy-Δ9-THC-D3

Matrix:

Blood

Calibration/Control levels (ng/mL):

	A	B	C
1	1	1	5
2	5	4	10
3	30	8	25
4	50	12	50
5	70	16	75
6	100	20	100
LOW	3	2	8
MED	40	10	40
HIGH	80	18	80

Validation parameters:

bias	Shall not exceed $\pm 20\%$
calibration model	See above ranges (linear if possible), calibration curves shall have a $>0.990 r^2$
carryover	Carryover after 10x highest calibrator does not produce a positive signal
interference	No interfering signal from matrix/internal standard/common analytes found in interference mixtures or individual standards

ionization suppression/enhancement (matrix effect)	<25% suppression or enhancement and <15% CV due to matrix (if not evaluate impact on LOD/LOQ/Bias)
limit of detection	At least equal to lower limit of quantitation
limit of quantitation	At least equal to standard 1
precision	% CV must not exceed 20%
dilution integrity	Will not be evaluated during validation
stability	Extracted samples will be stable for 4 days when stored refrigerated in the autosampler

Extraction procedure:

The extraction procedure has already been explored by a previous project. It will be an acidic buffered SLE using 0.5 mL blood.

Instrument procedure:

The instrument method has been determined by a previous project. The instrument procedure uses an Agilent Poroshell 120, EC-C18, 2.1x100mm, 2.7 µm column with a Poroshell 120, UHPLC Guard, EC-C18, 2.1mm guard column.

MRM transitions:

When possible, the MRM transition that produces the largest signal will be used in the instrument method. Final designation of transitions will be determined following the interference study.

Processing Method:

Samples will be processed in Multiquant using a six-point calibration curve. Queries will be run to determine relative retention time and ion ratio acceptance. Relative retention time must be within $\pm 2.5\%$ of the average of the usable calibrators and ion ratios must be within $\pm 20\%$ of the average of all the calibrators used in the calibration curve.

Queries:

Queries used in this method have been previously validated for other methods.

Interference:

Each panel analyte and internal standard will be run neat individually on the instrument to determine if there is any interfering signal. All expanded scope panel analytes, interference mixes and other analytes (see table below) will also be injected to make sure there are no positive results for any of those analytes. Each panel analyte's MRM window will be reviewed for potential signal interference.

Matrix interference will be evaluated by extracting blank blood from at least 10 different sources.

Interference Analytes
acryl fentanyl
atomoxetine
atropine
benztropine
benzylpiperazine

bupropion
buspirone
butylone
1-(3-chlorophenyl)piperazine
chlorpromazine
clonidine

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desloratadine
o-desmethylvenflaxine
dextrorphan
dihydrocodeine
diltiazem
duloxetine
ecgonine ethyl ester
ecgonine methyl ester
EDDP
ephedrine
etomidate
4-fluoroamphetamine
furanyl fentanyl
hydroxybupropion
laudanose
lidocaine
meclizine
mephedrone
methocarbamol
5-methoxy DiPT
5-methoxy MiPT
3,4-methylenedioxy PV9
methylone
metoclopramide
metoprolol
naphyrone
norcitalopram
norcodeine
norhydrocodone
nor-mephredrone
norquetiapine
norverapamil
olanzapine
orphenadrine
oxybutynin
promethazine
propofol
propranolol
α -pyrrolidinohexanophenone
α -pyrrolidinopentiophenone
quetiapine
quinine
sufentanil
ticlopidine
1-(3-trifluoromethylphenyl)piperazine
verapamil

Interference Mix 1
(-)-cotinine
(-)-nicotine
acetaminophen
caffeine
ibuprofen
naproxen
phentermine
R,R(-)-pseudoephedrine, List I
Interference Mix 2
gabapentin
pregabalin
salicylic acid
valproic acid
vigabatrin
Interference Mix 3
(+)-propoxyphene
aripiprazole
lacosamide
oxcarbazepine
rufinamide
warfarin
Interference Mix 4
alprazolam
cimetidine
citalopram HBr
clonazepam
clopidogrel bisulfate
dextromethorphan
fluconazole
hydrochlorothiazide
lamotrigine
L-thyroxine
methylphenidate HCl
omeprazole
Interference Mix 5
carbamazepine
levetiracetam
metformin HCl
phenobarbital
phenytoin
R(-)-phenylephrine HCl
sertraline hydrochloride
topiramate
zolpidem tartrate
zonisamide

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Interference Mix 6
amlodipine besylate
atorvastatin calcium salt
azithromycin dihydrate
bupivacaine HCl monohydrate
cetirizine dihydrochloride
dimenhydrinate
lisinopril dihydrate
loratadine
Interference Mix 7
montelukast sodium salt
pioglitazone hydrochloride
prednisolone
prednisone
procainamide HCl
simvastatin
Synthetic Cannabinoid Custom Mix 1
UR-144-N-(5-chloropentyl) analog
AM2201
JWH 018
JWH 018 8-quinolinyl caborxamide
JWH 073
JWH 122
JWH 210
JWH 250

MAM2201
UR-14
UR-144 degradant
XLR11
XLR11 degradant
Synthetic Cannabinoid Custom Mix 3
5-fluoro NNEI
5-fluoro PB-22
5-fluoro PB-22 3-hydroxyquinoline isomer
FUB-144
MMB-FUBINACA
FUB-PB-22
NM2201
PB-22
THJ2201
Phytocannabinoid Mix 10
Cannabidivarin (CBDV)
Cannabidiolic Acid (CBDA)
Cannabigerolic Acid (CBGA)
Cannabigerol (CBG)
Cannabidiol (CBD)
Cannabinol (CBN)
Tetrahydrocannabinolic Acid A (THCA-A)
Cannabichromene (CBC)

Additional interferences will include any THC isomers or similar compounds we can purchase as well as the entirety of the expanded scope screen.

Ion suppression/enhancement:

ANSI/ASB Standard 036 section 8.6.3 will be used to evaluate ion suppression/enhancement. 10 sources of blank blood will be used in duplicate and at two different concentrations (low and high control ranges) to determine if there is any matrix induced ion suppression or enhancement on panel analytes. The results of this experiment will determine how many replicates will be needed in the evaluation of bias and precision and limit of detection.

Calibration model:

ANSI/ASB Standard 036 section 8.2 will be used to determine the appropriate calibration model for each analyte.

Carryover:

ANSI/ASB Standard 036 section 8.4 will be used to determine if carryover is present and at what levels if it is. We intend to evaluate carryover at 10x STD 6. If carryover is present, lower levels will be evaluated and measures taken if necessary to eliminate the need to reinject many samples.

Stability:


ANSI/ASB Standard 036 section 9.3 will be used to determine the length of time extracted samples are stable when stored in refrigerated storage.

Standards needed for making calibrators/controls/internal standards

Whenever possible, calibrators and controls will be made with separate lots/vials/manufacturers of certified reference materials. The following will need to be purchased to make an entire set of calibrators, controls and internal standards, one vial each.

Analyte	Concentration (mg/mL)	Vendor	Item Number
(-)- Δ^9 -THC	1.0	Cerilliant	T-005S-1ML
(-)- Δ^9 -THC	1.0	Cayman Chemical	ISO60157
(-)- Δ^8 -THC	1.0	Cerilliant	T-032
(-)- Δ^8 -THC	1.0	Cayman Chemical	ISO60158
(\pm)-11-nor-9-Carboxy- Δ^9 -THC (THC-COOH)	1.0	Cerilliant	T-019
(\pm)-11-nor-9-Carboxy- Δ^9 -THC (THC-COOH)	1.0	Cayman Chemical	20754
(\pm)-11-Hydroxy- Δ^9 -THC (THC-OH)	1.0	Cerilliant	H-027
(\pm)-11-Hydroxy- Δ^9 -THC (THC-OH)	1.0	Cayman Chemical	21667
(-)- Δ^9 -THC-D3	0.1	Cerilliant	T-003
(-)- Δ^8 -THC-D3	0.1	Cerilliant	T-153-1ML
(\pm)-11-nor-9-Carboxy- Δ^9 -THC-D3	0.1	Cerilliant	T-004
(\pm)-11-Hydroxy- Δ^9 -THC-D3	0.1	Cerilliant	H-041

SOP

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4.3.2.1 Title

LC-Cannabinoid Confirmation in Blood

4.3.2.2 Purpose and Scope

The purpose of this confirmatory method is to utilize LC-MS/MS technology to provide quantitative results for Δ^9 -tetrahydrocannabinol (Delta-9 THC), Δ^8 -tetrahydrocannabinol (Delta-8 THC), 11-hydroxy- Δ^9 -tetrahydrocannabinol (11-Hydroxy Delta-9 THC), and 11-nor-9-carboxy- Δ^9 -tetrahydrocannabinol (Delta-9 Carboxy THC). For ease, and space considerations, the analytes are abbreviated Δ^9 -THC, Δ^8 -THC, Δ^9 -THC-OH, and Δ^9 -THC-COOH throughout this SOP.

4.3.2.3 Limitations

Interference studies were conducted with a combination of approximately two-hundred-fifty over the counter, prescription, and illicit drugs. While this study included many drugs that are expected to be encountered in routine casework, it did not include every possible known substance that an individual could be exposed to. The drugs included in the interference study did not cause any false positive drug results for the analytes of interest.

The presence of Δ^8 -hydroxy-tetrahydrocannabinol and Δ^8 -carboxy-tetrahydrocannabinol may interfere with Δ^9 -hydroxy-tetrahydrocannabinol and Δ^9 -carboxy-tetrahydrocannabinol, respectively. The presence of exo-tetrahydrocannabinol may interfere with Δ^9 -tetrahydrocannabinol. See 4.3.2.12 for additional details.

Carryover was assessed after analyzing standards that were ten times higher than standard six. No carryover existed in blank samples analyzed immediately afterward. To be conservative, analyte/internal standard area ratios higher than five times standard six shall result in the reinjection of the next casework sample.

4.3.2.4 Specimen Criteria

500 μ L blood

4.3.2.5 Safety

blood – mitigate biohazard risk by employing universal biohazard precautions


acetonitrile – see [MSDS](#), mitigate chemical hazard risk by taking appropriate precautions

formic acid – see [MSDS](#), mitigate chemical hazard risk by taking appropriate precautions

methanol – see [MSDS](#), mitigate chemical hazard risk by taking appropriate precautions

methyl tert-Butyl Ether (MTBE) – see [MSDS](#), mitigate chemical hazard risk by taking appropriate precautions

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4.3.2.6 Equipment

LCMSMS-21-1
 Poroshell 120, EC-C18, 2.1x100mm, 2.7µm column
 Poroshell 120, UHPLC Guard, EC-C18, 2.1mm
 1 mL capacity Biotage ISOLUTE+ SLE cartridge
 Centrifuge
 Pipettes
 Repeater pipette
 Vortex mixer
 Solvent evaporator
 Vacuum pump
 Glass block vacuum chamber
 Extraction cartridge 12/24 manifold
 Clean through extraction tip
 16x100 mm glass culture tubes
 Autosampler vial with glass insert
 Autosampler vial cap
 Formic acid – LCMS grade
 Acetonitrile – LCMS grade
 Deionized water – LCMS grade
 MTBE

4.3.2.7 Sample Preparation and Procedure

Prepare extraction manifold by labeling a 1 mL capacity SLE cartridge and placing cartridge onto the extraction manifold equipped with disposable extraction tips. Place a collection tray with appropriately labeled 16x100 mm collection tube into the glass block vacuum chamber.

Note: ensure that each disposable extraction tip is lined up with the corresponding collection tube.

To all appropriately labeled 16x100 mm glass tubes, add 500 µL of 0.1% formic acid in water. Add 20 µL of internal standard solution to all culture tubes, including the negative control. Add 20 µL of standards 1-6, and the low, medium, and high control to appropriate culture tubes.

Prepare a matrix negative control by adding 500 µL of blank blood (no internal standard) to appropriate culture tube. A matrix negative is not necessary if the lot# of blank blood being used for calibrators and controls has previously been analyzed in this confirmatory assay. It is the responsibility of the individual performing the confirmatory analysis to verify this information.


Add 500 µL of blank blood to standard and control culture tubes.

Add 500 µL of unknown blood to culture tubes.

Vortex each calibrator, control, and unknown to mix sample with diluent.

Pipette 750 µL of each calibrator, control, and unknown into the labeled SLE cartridge.

Apply a short pulse of vacuum (approximately 1-2 seconds) to initiate the sample loading into the SLE cartridge. Allow gravity or slight individual positive pressure to load the samples into the SLE cartridge.

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Note: wait for each sample to completely descend into the SLE cartridge before moving onto the next step.

Allow cartridge sorbent 5 minutes to absorb the sample.
Add 3 mL of MTBE to each SLE cartridge and allow 5 minutes for gravity to begin eluting the sample.
Add a second 3 mL aliquot of MTBE to each SLE cartridge and allow 5 minutes for gravity to begin eluting the sample.

Note: after the second 5 minute elution, use minimal vacuum pressure or pulse the vacuum pump to assist with the elution of the sample. Do not exceed approximately 1 mL elution flow per minute.

Place collection tubes into solvent evaporator (<40°C) and dry with nitrogen (approximately 4-6 psi) until dry (approximately 5-10 minutes).
Reconstitute by adding 40 µL of 0.1% formic acid in acetonitrile to each culture tube, vortex. Add 40 µL of 0.1% formic acid in water to each culture tube, vortex.
Transfer each sample into an appropriately labeled LC autosampler vial and cap.
Centrifuge for 10 minutes at 3500 rpm.
Run on instrument.

Note: validation demonstrated that the analytes in this method are stable for 3 days after extraction, when stored in 15 °C. Samples not analyzed within 3 days of extraction must be reextracted.

4.3.2.8 Performance Characteristics

Standards have been validated at the following concentrations (ng/mL):


Analyte	Standard 1	Standard 2	Standard 3	Standard 4	Standard 5	Standard 6
Δ9-THC	1	5	30	50	70	100
Δ8-THC	1	5	30	50	70	100
Δ9-THC-COOH	5	10	25	50	75	100
Δ9-THC-OH	1	4	8	12	16	20

Controls have been validated at the following concentrations (ng/mL):

Analyte	LOW Control	MEDIUM Control	HIGH Control
Δ9-THC	3	40	80
Δ8-THC	3	40	80
Δ9-THC-COOH	8	40	80
Δ9-THC-OH	2	10	18

Note: Instructions for calibrator and control preparation can be found in form [FS-127](#).

Internal Standards have been validated at the following concentrations (ng/mL):

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Analyte	Concentration
Δ9-THC-D3	50
Δ8-THC-D3	50
Δ9-THC-COOH-D3	50
Δ9-THC-OH-D3	10

Note: Instructions for Internal Standard preparation can be found in form [FS-126](#).

Limits of Detection (LOD), Lower Reporting Limits (LRL), Lower Limits of Quantitation (LLOQ), and Upper Limits of Quantitation (ULOQ) have been validated at the following concentrations (ng/mL):

Analyte	LOD	LRL	LLOQ	ULOQ
Δ9-THC	0.4	0.5	1	100
Δ8-THC	0.4	0.5	1	100
Δ9-THC-COOH	2	2.5	5	100
Δ9-THC-OH	1	1	1	20

Note: the LOD for Δ9-THC, Δ8-THC, and Δ9-THC-COOH may be lower than what is listed in this table. As no concentrations below the LRL will be reported, validation studies did not go any lower.

Note: the LRL is determined as 50% of the area ratio between analyte and internal standard of calibrator 1. The concentrations provided in the above table are estimates of the LRL.

4.3.2.9 Analytical Parameters

Instrument Operating Parameters are in [TX-PM 5.15 Instrument Operating Parameters](#).

Instrument Maintenance

Check to ensure that the following maintenance has been completed:

Curtain plate has been cleaned within the last 30 days

Guard column has been changed within the last 2 months

Mobile phases have been prepared within the last month and are of sufficient volume to complete the analytical run

HPLC is connected to MS

Correct mobile phases are being used

Correct column is in place

Waste container is not full


Pump valves are closed

Needle rinse has sufficient volume

Calibration Models

Analyte	Curve Type	Weighting	Origin	Transition 1	Transition 2	Internal Standard
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Δ9-THC	Quadratic	Inverse (1/x)	Ignore	315.1 / 193.1	315.1 / 123.0	Δ9-THC-D3 318.1 / 123.0
Δ8-THC	Quadratic	Inverse (1/x)	Ignore	315.1 / 193.1	315.1 / 123.1	Δ8-THC-D3 318.1 / 123.0
Δ9-THC-COOH	Linear	Inverse (1/x)	Ignore	343.0 / 299.1	343.0 / 191.0	Δ9-THC-COOH-D3 346.0 / 194.0
Δ9-THC-OH	Linear	Inverse (1/x)	Ignore	331.1 / 193.1	331.1 / 105.1	Δ9-THC-OH-D3 334.1 / 196.1

Note: The retention time order of the analytes is Δ9-THC-OH, Δ9-THC-COOH, Δ9-THC, and Δ8-THC.

4.3.2.10 Data Analysis

Acceptance Criteria of Calibrators

Calibrator values shall be within $\pm 20\%$ of the target value. The r^2 value for calibration curves shall be ≥ 0.990 .

Method Validation did not evaluate the impact of dropping calibration points on the linear curves of Δ9-THC-OH or Δ9-THC-COOH. No calibration points may be dropped.

Acceptance Criteria of Controls

Control values shall be within $\pm 20\%$ of the target value. All quantitative controls are required to be within acceptance criteria. The negative control shall not contain the analytes of interest at a reportable concentration.


Acceptance Criteria of Internal Standards

Internal Standard area counts shall be within acceptance criteria of the mean of the batch, specific to each IS. The following acceptance criteria shall be used:

Analyte	Acceptance
Δ9-THC-D3	$\pm 30\%$
Δ8-THC-D3	$\pm 40\%$
Δ9-THC-COOH-D3	$\pm 25\%$
Δ9-THC-OH-D3	$\pm 20\%$

Acceptance Criteria of Casework Samples

Chromatographic Quality Requirement

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Chromatographic quality for LC/MS/MS transition data is defined as a reasonably symmetrical shaped peak consistent with those observed in calibrators and positive controls and can be differentiated from a negative control.

Retention Time Requirement

This assay uses a Relative Retention Time (RRT) model. The RRT is calculated by dividing the analyte retention time by the internal standard retention time. This is performed for all calibrators used in the calibration curve, averaged, and then given an acceptable value of $\pm 2.5\%$. Positive analytes must be within this range to be considered acceptable.

Ion Ratio Requirement

This assay utilizes one transition ion as a quantitative ion and a second transition ion as a confirmatory ion. The ion ratio is calculated by dividing the area count of transition 2 by the area count of transition 1. The ratio between the two ions must be within $\pm 20\%$ of the average of all the calibrators used in the calibration curve to be acceptable.

NOTE: Chromatographic and Mass Spectral Quality Control shall be evaluated for all calibrators, controls, and unknowns in an analytical batch.

4.3.2.11 Corrective Measures

If acceptance criteria are not met, consult with the unit supervisor to determine whether re-extraction or qualitative reporting will be performed. The rationale for that decision shall be recorded in the electronic case file.

4.3.2.12 Reporting


Quantitative results will be truncated and reported in ng/mL to one decimal for values <10 ng/mL. Quantitative values ≥ 10 ng/mL will be truncated and reported as a whole number.

Analytes present at a concentration $< (\text{LOQ})$ with an area ratio of analyte to I.S. $\geq 50\%$ of Standard 1 will be reported as " $< (\text{LOQ})$ ".

Analytes present at a concentration $< \text{LOQ}$ with an area ratio of analyte to internal standard $< 50\%$ of Standard 1 will not be reported. If no analytes in this confirmatory assay are positive the report will state, "Not Detected: Cannabinoids".

If an analyte is present above the ULOQ, it will be reported as " $> (\text{ULOQ})$ ". If an analyte is present above the ULOQ and the ion ratios fail acceptance criteria, the sample may be reinjected with $1 \mu\text{L}$ to demonstrate acceptable ion ratios. The impacted analyte will remain reported as " $> (\text{ULOQ})$ ".

If either of the $\Delta 8$ -THC metabolites and $\Delta 9$ -THC metabolites are present in the same sample, $\Delta 9$ -THC metabolites cannot be reported. In those instances, the language on the reports shall state: "specific $\Delta 9$ -THC metabolite" was not able to be reported due to an interfering substance. For additional information contact this laboratory."

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Validation demonstrated that ≥ 10 ng/mL of exo-tetrahydrocannabinol interferes with $\Delta 9$ -THC, at all calibration levels. When both analytes are present in the same sample, the report shall state: “ $\Delta 9$ -THC was not able to be reported due to an interfering substance. For additional information contact this laboratory.”

4.3.2.13 References

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[ANSI/ASB Standard 036](#)

[ANSI/ASB Standard 054](#)

[ANSI/ASB Standard 152](#)

[ANSI/ASB Standard 017](#)

LCMSMS-21-1
INSTRUMENT INSTALLATION SPECS



SCIEX Triple Quad™ 4500/4500MD Systems

Installation Checklist and Data Log



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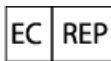
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Installation Preparation

1

Note: For regulatory and safety information for the mass spectrometer, refer to the *System User Guide*.

Note: Before starting the installation, verify that the customer has completed the checklist in the *Site Planning Guide*.

Customer Information

Organization	
Address	
Telephone	
Contact name	
E-mail address	

System Information

Table 1-1 Mass Spectrometer Information

Mass spectrometer model	
Mass spectrometer location	
Mass spectrometer serial number	
Firmware version	
Roughing pump model	
Roughing pump serial number	

Table 1-2 Acquisition Computer Information

Model		Service tag	
Windows OS version		Windows OS service pack	
Analyst [®] /Analyst [®] MD software version		Analyst [®] /Analyst [®] MD software HotFix	
(MD systems only) Cliiquid [®] MD software version			
(Non-MD systems only) SCIEX OS version			
MultiQuant [™] /MultiQuant [™] MD software version			

Installation Preparation

Table 1-3 Ion Source Information

Component	Serial Number
Turbo V™ ion source TurbolonSpray® probe APCI probe	
NanoSpray® III ion source (if applicable, non-MD systems only)	
DuoSpray™ ion source (if applicable, non-MD systems only)	
TurbolonSpray® probe	
APCI probe	
Other/Third-party ion source (if applicable, non-MD systems only)	

Note: Only the Turbo V™ ion source is available on MD systems.

Table 1-4 System Components and Peripherals

Component	Serial Number

Table 1-4 System Components and Peripherals (continued)

Component	Serial Number

Installation Checklist

2

The Field Service Employee (FSE) must complete this checklist to make sure that every step in the installation procedure is completed. The checklist also contains an installation acceptance form for the customer representative and the FSE to sign when the work is complete. Refer to [Signoff](#).



Unpacking and Inspection

Task	Complete	N/A
Inspect the packaging: <ul style="list-style-type: none">Inspect all tip and shock indicators for signs of excessive shock or tilting.Inspect the boxes for exterior damage.		—
Unpack and inspect all of the components.		—
(Optional) Unpack, inspect, and install the bench. <ol style="list-style-type: none">Inspect the packaging for exterior damage.Unpack the bench and then inspect for damage.Install the bench.	○	○

Hardware Installation

Task	Complete	N/A
Install the mass spectrometer on the bench.		—
(Non-MD systems only) Affix the name plate on the front cover of the mass spectrometer.	<input type="radio"/>	<input type="radio"/>
Verify that the mains supply outlets for the roughing pump and the mass spectrometer deliver stable output voltages that meet the specified electrical requirements.		—
(Optional, not applicable for MD systems) Install the SCIEX-supplied and verified UPS system.	<input type="radio"/>	<input type="radio"/>
Install the roughing pump, connecting it to the mass spectrometer and the vent. Make sure that the roughing pump contains sufficient oil.		—
(Optional) Install the SCIEX-supplied and verified gas generator according to the documentation provided by the manufacturer.	<input type="radio"/>	<input type="radio"/>
Purge the gas system for at least 45 minutes before connecting it to the mass spectrometer. Note: Follow the purge instructions for SCIEX approved gas generators. For other gas supplies, set the pressure to 30 psi.		—
Connect the gas supply lines to the regulated outlet and purge them for 5 minutes.		—
Connect the gas supply lines to the mass spectrometer and set the required delivery pressure.		—
Install and connect the drain bottle. Note: Make sure to connect the source exhaust waste line from the source exhaust drain bottle to the negative flow vent in the lab.		—

Installation Checklist

Task	Complete	N/A
Install the Turbo V TM ion source. For 4500MD systems, refer to the <i>System User Guide</i> . For other systems, refer to the <i>Turbo VTM Ion Source Operator Guide</i> .		—
Adjust the stop on the integrated syringe pump.		—
<div>WARNING! Electrical Shock Hazard. Make sure that the system can be disconnected from the mains supply outlet in an emergency. Do not block the mains supply outlet.</div> <div>Plug in and turn on the roughing pump, and then plug in and turn on the mass spectrometer.</div>		—

Acquisition Computer Installation

Task	Complete	N/A
Install the computer and monitor on the computer table.		—
Connect the Ethernet cable from the computer to the mass spectrometer.		—
Turn on the computer.		—
Configure IP addresses for communication with the mass spectrometer.		—
Disable the Allow the computer to turn off this device to save power option on the Power Management tab.		—
(Optional) Connect the computer to the customer network.	<input type="radio"/>	<input type="radio"/>
Install the Analyst [®] /Analyst [®] MD software.		—
Install any applicable Analyst [®] /Analyst [®] MD software HotFixes.	<input type="radio"/>	<input type="radio"/>

Installation Checklist

Task	Complete	N/A
Install the applicable quantitation processing software: <ul style="list-style-type: none"> (Non-MD systems only) SCIEX OS MultiQuant™/MultiQuant™ MD software 	<input type="radio"/>	<input type="radio"/>
Install and license any SCIEX add-on software purchased with the system.	<input type="radio"/>	<input type="radio"/>
Verify and update the firmware and configuration files.		—
Install the factory files.		—

Initialization and Verification

Note: Perform these tasks after the mass spectrometer reaches operating vacuum.

Task	Complete	N/A
Perform the high pressure source and blocked exhaust flow tests.		—
Measure and tune the Q1, Q3, and QJet [®] coil boxes.	<input type="radio"/>	<input type="radio"/>
Perform all installation tests, generate the test results, and then complete the Data Log.		—

Installation and Verification of the StatusScope[®] Remote Monitoring Service

StatusScope[®] software is not applicable for MD systems.

Task	Complete	N/A
Discuss warranty coverage for the StatusScope [®] Remote Monitoring Service. <ul style="list-style-type: none">If the customer does not want the StatusScope[®] Remote Monitoring Service installed, then skip the remaining steps in this section.If the customer wants the StatusScope[®] Remote Monitoring Service installed, then complete the steps in this section.	<input type="radio"/>	<input type="radio"/>
Make sure the <i>StatusScope[®] Customer Remote Connectivity Authorization</i> and <i>Customer Remote Connectivity Registration</i> forms are both completed.	<input type="radio"/>	<input type="radio"/>

Installation Checklist

Task	Complete	N/A
Verify the connection to the server for the StatusScope® Remote Monitoring Service.	<input type="radio"/>	<input type="radio"/>
Install the agent for the StatusScope® Remote Monitoring Service.	<input type="radio"/>	<input type="radio"/>
Log on to the server for the StatusScope® Remote Monitoring Service using the FSE user name and then verify that the assets under the customer organization are connected to the server for the StatusScope® Remote Monitoring Service.	<input type="radio"/>	<input type="radio"/>
Perform the post-install fault test to verify that the mass spectrometer fault generated is shown in the StatusScope® Remote Monitoring Service.	<input type="radio"/>	<input type="radio"/>

Wrap-up

Task	Complete	N/A
Delete unnecessary files from the computer.		—
Back up the API instrument folder.		—
Create a computer image using the image utility.		—
Ask whether the mass spectrometer will be used to analyze biohazardous samples. If it will, then apply the biohazard labels included in the install kit. Apply one label on the ion source and one on the waste bottle.		—
Note: Find a vacant space that is clearly visible to affix the labels.		

Installation Checklist

Task	Complete	N/A
Complete all of the sections in the <i>Customer Familiarization Checklist</i> . Make a copy of the completed checklist and then give the original to the customer.		—
Complete this document: 1. Review the test results with the customer. 2. Obtain customer acceptance. 3. Provide the customer with the completed document and the test data. 4. If an electronic copy of this document is supplied to the customer, then save a copy on the Service drive. 5. (For SCIEX internal archival use) Upload the completed electronic copy of the checklist to the Files section of the Service Installation Case. 6. (For MD systems only) E-mail this completed document and the test result files to servicedata@sciex.com .		—

Data Log

3

Use this log to record the test data obtained during performance of the system verification tests during installation.

Note: Perform all procedures with the Turbo V™ ion source, unless otherwise specified.

Pre-test Pressure Verification is Complete		
Test	Specification	Result
Vacuum chamber pressure with CAD gas off	$0.4 \times 10^{-5} \text{ torr} \leq P_{\text{CAD } 0} \leq 1.1 \times 10^{-5} \text{ torr}$	
Pressure difference (CAD ₁₂ minus CAD ₀)	$1.8 \times 10^{-5} \text{ torr} \leq (P_{\text{CAD } 12} - P_{\text{CAD } 0}) \leq 2.8 \times 10^{-5} \text{ torr}$	

Data Log

Q1 Positive PPGs Test is Complete – Intensity and Peak Width

- **Test solution:** POS PPG, 2e-6 M
- **Flow rate:** 5 μ L/min
- **Scan rate:** 10 Da/s
- **Cycles:** 10
- **MCA:** On
- **Printouts required:** Spectra for masses 59.050, 175.133, 500.380, 616.464, 906.673, 1 254.925, 1 545.134, 1 952.427, with peak intensities, peak width, and mass shift results, complete with method file information.

Note: After calibration, the mass shift result must be within 0.1 Da for all assigned masses.

Table 3-1 Verification: Intensity and Peak Width for Q1 Positive PPGs Tests

Mass (Da)	Intensity (cps)		Peak Width (Da)	
	Specification	Result	Specification	Result
175.133	$\geq 8.0 \times 10^6$		0.6 to 0.8	
500.380	$\geq 8.0 \times 10^6$		0.6 to 0.8	
906.673	$\geq 2.0 \times 10^7$		0.6 to 0.8	
1 952.427	$\geq 8.8 \times 10^5$		0.6 to 0.8	

Q1 Positive PPGs Test is Complete – Peak Width for Identified Masses

- **Test solution:** POS PPG, 2e-6 M
- **Flow rate:** 5 µL/min
- **MCA:** On
- **Printouts required:** Spectra for masses 59.050, 175.133, 500.380, 616.464, 906.673, 1 254.925, 1 545.134, 1 952.427, with peak intensities, peak width, and mass shift results, complete with method file information.

Note: After calibration, the mass shift result must be within 0.1 Da for all assigned masses.

Table 3-2 Verification: Peak Width for Identified Masses for the Q1 Positive PPGs Tests

Mass (Da)	Scan Rate (Da/s)	Cycles	Specification (Da)	Result (Passed)
59.050, 175.133, 500.380, 616.464, 906.673, 1 254.925, 1 545.134, 1 952.427	10	10	0.6 to 0.8	
	200	50	0.6 to 0.8	
	1 000	50	0.6 to 0.8	
	2 000	100	0.6 to 0.8	

Data Log

Q3 Positive PPGs Test is Complete – Intensity and Peak Width

- **Test solution:** POS PPG, 2e-6 M
- **Flow rate:** 5 µL/min
- **Scan rate:** 10 Da/s
- **Cycles:** 10
- **MCA:** On
- **Printouts required:** Spectra for masses 59.050, 175.133, 500.380, 616.464, 906.673, 1 254.925, 1 545.134, 1 952.427, with peak intensities, peak width, and mass shift results, complete with method file information.

Note: After calibration, the mass shift result must be within 0.1 Da for all assigned masses.

Table 3-3 Verification: Intensity and Peak Width for Q3 Positive PPGs Tests

Mass (Da)	Intensity (cps)		Peak Width (Da)	
	Specification	Result	Specification	Result
175.133	$\geq 8.0 \times 10^6$		0.6 to 0.8	
500.380	$\geq 8.0 \times 10^6$		0.6 to 0.8	
906.673	$\geq 2.0 \times 10^7$		0.6 to 0.8	
1 952.427	$\geq 8.8 \times 10^5$		0.6 to 0.8	

Q3 Positive PPGs Test is Complete – Peak Width for Identified Masses

- **Test solution:** POS PPG, 2e-6 M
- **Flow rate:** 5 µL/min
- **MCA:** On
- **Printouts required:** Spectra for masses 59.050, 175.133, 500.380, 616.464, 906.673, 1 254.925, 1 545.134, 1 952.427, with peak intensities, peak width, and mass shift results, complete with method file information.

Note: After calibration, the mass shift result must be within 0.1 Da for all assigned masses.

Table 3-4 Verification: Peak Width for Identified Masses for the Q3 Positive PPGs Tests

Mass (Da)	Scan Rate (Da/s)	Cycles	Specification (Da)	Result (Passed)
59.050, 175.133, 500.380, 616.464, 906.673, 1 254.925, 1 545.134, 1 952.427	10	10	0.6 to 0.8	
	200	50	0.6 to 0.8	
	1 000	50	0.6 to 0.8	
	2 000	100	0.6 to 0.8	

Data Log

Q1 Negative PPGs Test is Complete – Intensity and Peak Width

- **Test solution:** NEG PPG, 3e-4 M
- **Flow rate:** 10 µL/min
- **Scan rate:** 10 Da/s
- **Cycles:** 10
- **MCA:** On
- **Printouts required:** Spectra for masses 44.998, 411.259, 585.385, 933.636, 1 223.845, 1 572.097, 1 863.306, 1 979.389, with peak intensities, peak width, and mass shift results, complete with method file information.

Note: After calibration, the mass shift result must be within 0.1 Da for all assigned masses.

Table 3-5 Verification: Intensity and Peak Width for the Q1 Negative PPGs Tests

Mass (Da)	Intensity (cps)		Peak Width (Da)	
	Specification	Result	Specification	Result
933.636	$\geq 1.8 \times 10^7$		0.6 to 0.8	
1 863.306	$\geq 1.4 \times 10^6$		0.6 to 0.8	

Q1 Negative PPGs Test is Complete – Peak Width for Identified Masses

- **Test solution:** NEG PPG, 3e-4 M
- **Flow rate:** 10 μ L/min
- **MCA:** On
- **Printouts required:** Spectra for masses 44.998, 411.259, 585.385, 933.636, 1 223.845, 1 572.097, 1 863.306, 1 979.389, with peak intensities, peak width, and mass shift results, complete with method file information.

Note: After calibration, the mass shift result must be within 0.1 Da for all assigned masses.

Table 3-6 Verification: Peak Width for Identified Masses for the Q1 Negative PPGs Tests

Mass (Da)	Scan Rate (Da/s)	Cycles	Specification (Da)	Result (Passed)
44.998, 411.259, 585.385, 933.636, 1 223.845, 1 572.097, 1 863.306, 1 979.389	10	10	0.6 to 0.8	
	200	50	0.6 to 0.8	
	1 000	50	0.6 to 0.8	
	2 000	100	0.6 to 0.8	

Data Log

Q3 Negative PPGs Test is Complete – Intensity and Peak Width

- **Test solution:** NEG PPG, 3e-4 M
- **Flow rate:** 10 µL/min
- **Scan rate:** 10 Da/s
- **Cycles:** 10
- **MCA:** On
- **Printouts required:** Spectra for masses 44.998, 411.259, 585.385, 933.636, 1 223.845, 1 572.097, 1 863.306, 1 979.389, with peak intensities, peak width, and mass shift results, complete with method file information.

Note: After calibration, the mass shift result must be within 0.1 Da for all assigned masses.

Table 3-7 Verification: Intensity and Peak Width for the Q3 Negative PPGs Tests

Mass (Da)	Intensity (cps)		Peak Width (Da)	
	Specification	Result	Specification	Result
933.636	$\geq 1.8 \times 10^7$		0.6 to 0.8	
1 863.306	$\geq 2.0 \times 10^6$		0.6 to 0.8	

Q3 Negative PPGs Test is Complete – Peak Width for Identified Masses

- **Test solution:** NEG PPG, 3e-4 M
- **Flow rate:** 10 μ L/min
- **MCA:** On
- **Printouts required:** Spectra for masses 44.998, 411.259, 585.385, 933.636, 1 223.845, 1 572.097, 1 863.306, 1 979.389, with peak intensities, peak width, and mass shift results, complete with method file information.

Note: After calibration, the mass shift result must be within 0.1 Da for all assigned masses.

Table 3-8 Verification: Peak Width for Identified Masses for the Q3 Negative PPGs Tests

Mass (Da)	Scan Rate (Da/s)	Cycles	Specification (Da)	Result (Passed)
44.998, 411.259, 585.385, 933.636, 1 223.845, 1 572.097, 1 863.306, 1 979.389	10	10	0.6 to 0.8	
	200	50	0.6 to 0.8	
	1 000	50	0.6 to 0.8	
	2 000	100	0.6 to 0.8	

Data Log

Reserpine MS/MS Test is Complete	
<ul style="list-style-type: none"> • Test solution: Reserpine solution 0.167 pmol/μL • Flow rate: 5 μL/min • Scan rate: 10 Da/s (both MS and MS/MS) • Scan mode: Product Ion (MS2) • Product Of: 609.3 (or as calibrated) • Product Ion: 195.1 • Cycles: 10 • MCA: On • Printouts required: Spectra for masses 609.3 and 195.1, with peak intensities, peak width, and mass shift results, complete with method file information. 	
Table 3-9 Verification for the Reserpine MS/MS Test	
Specification	Result
Transmission efficiency $\frac{\text{Intensity for ion at } m/z \text{ 195.1}}{\text{Intensity for ion at } m/z \text{ 609.3 (or as calibrated)}} \times 100 \geq 10\%$	

Turbo V™ Ion Source Heater Test is Complete			
Probe	Test	Specification	Result (Passed)
TurbolonSpray®	Set the temperature parameter to 500 °C.	The Analyst® /Analyst® MD software reports that the temperature is reached.	
APCI	Set the temperature parameter to 400 °C.	The Analyst® /Analyst® MD software reports that the temperature is reached.	

Data Log

Post-test Pressure Verification is Complete		
Test	Specification	Result
Vacuum chamber pressure with CAD gas off	$0.4 \times 10^{-5} \text{ torr} \leq P_{\text{CAD } 0} \leq 1.1 \times 10^{-5} \text{ torr}$	
Pressure difference (CAD ₁₂ minus CAD ₀)	$1.8 \times 10^{-5} \text{ torr} \leq (P_{\text{CAD } 12} - P_{\text{CAD } 0}) \leq 2.8 \times 10^{-5} \text{ torr}$	

Signoff

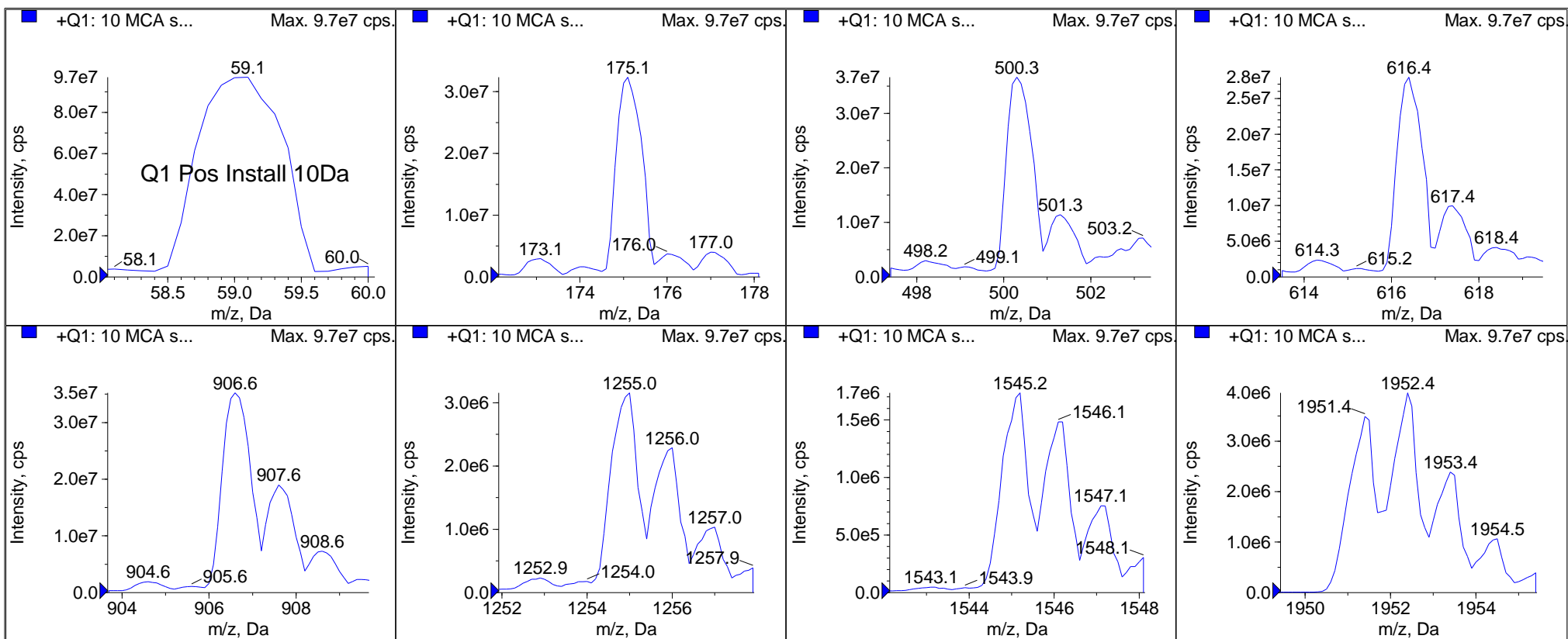
4

Organization	
Customer contact name	Date (yyyy-mm-dd)
Customer contact signature <i>Geoffrey French</i>	
FSE name	Date (yyyy-mm-dd)
FSE signature <i>Nicholas Verran</i>	

Note: As part of continuous improvement, a third party might call to obtain feedback.

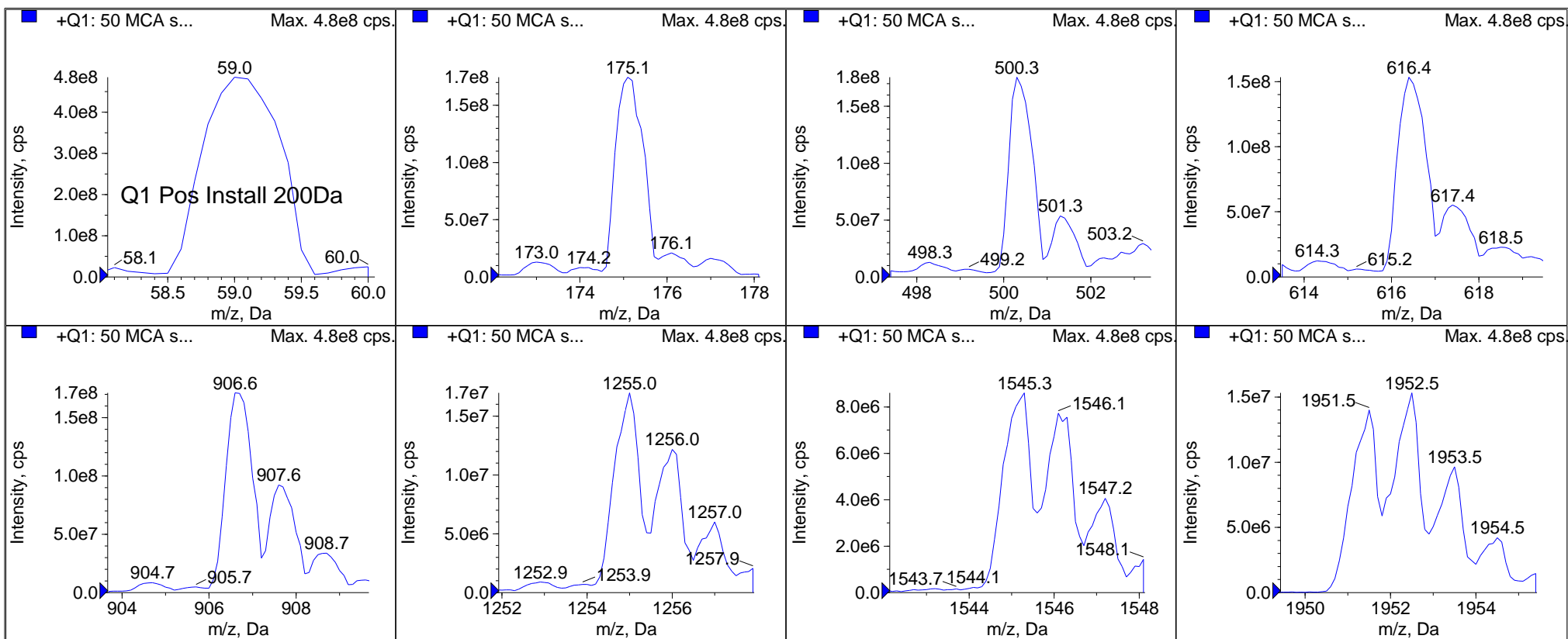
Signoff

Comments and Exceptions



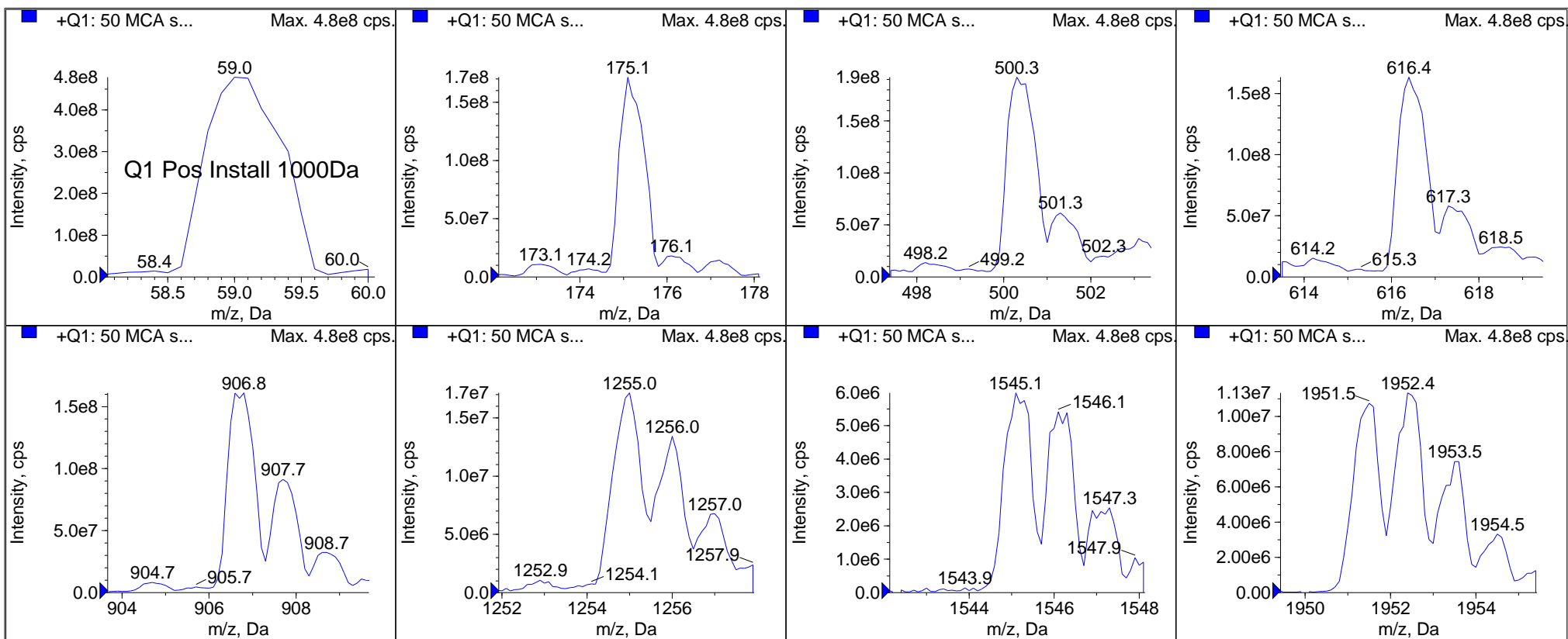
Peak List for "+Q1: 10 MCA scans from Sample 1 (Q1 Pos Install 10Da) of install.wiff (Turbo Spray)"

	Target Mass (Da)	Found At (Da)	Intensity (cps)	Width (Da)	Mass Shift (Da)
1	59.0500	59.0444	9.7127e7	0.7735	5.6015e-3
2	175.1330	175.1205	3.2344e7	0.7122	0.0125
3	500.3800	500.3505	3.6613e7	0.7014	0.0295
4	616.4640	616.4115	2.7973e7	0.7098	0.0525
5	906.6730	906.6180	3.5215e7	0.7415	0.0550
6	1254.9250	1254.8787	3.1535e6	0.7264	0.0463
7	1545.1340	1545.0772	1.7345e6	0.6791	0.0568
8	1952.4270	1952.3486	3.9550e6	0.6765	0.0784



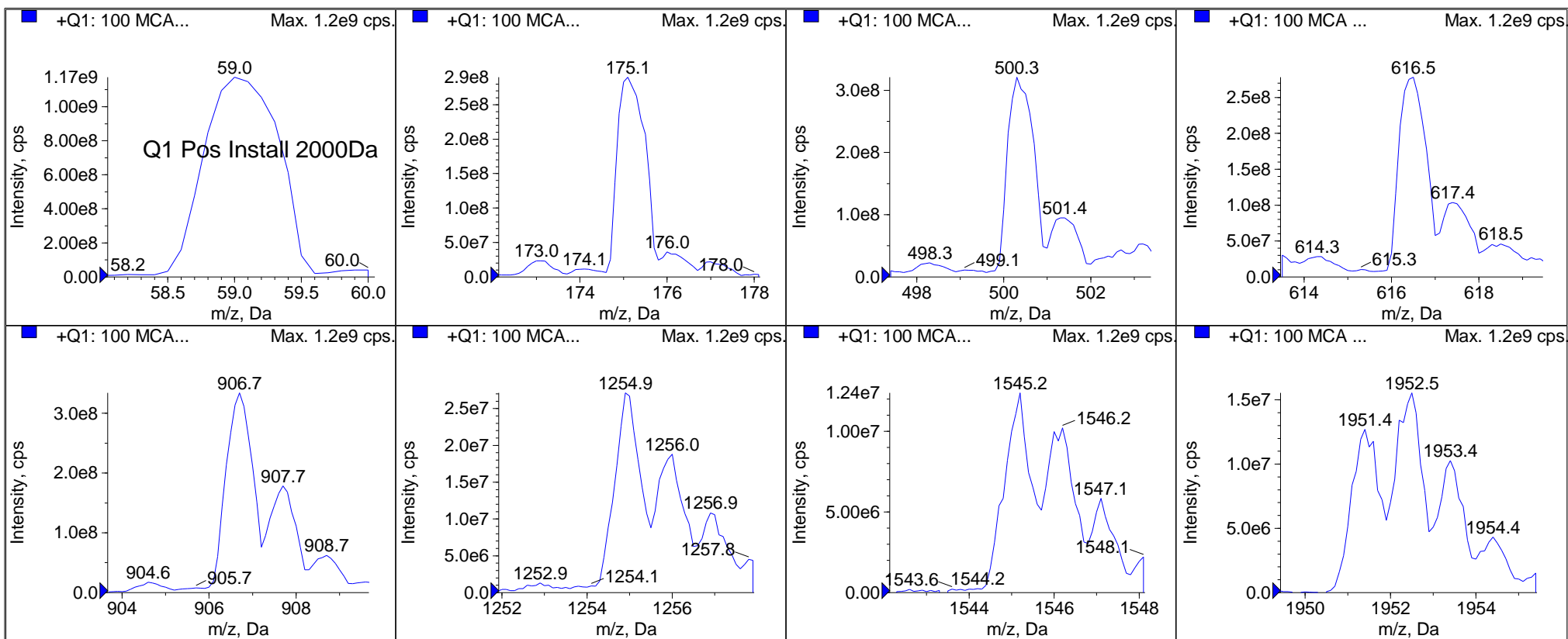
Peak List for "+Q1: 50 MCA scans from Sample 4 (Q1 Pos Install 200Da) of install.wiff (Turbo Spray)"

	Target Mass (Da)	Found At (Da)	Intensity (cps)	Width (Da)	Mass Shift (Da)
1	59.0500	59.0602	4.8481e8	0.7096	-0.0102
2	175.1330	175.1273	1.7459e8	0.7758	5.6820e-3
3	500.3800	500.3827	1.7560e8	0.6330	-2.6528e-3
4	616.4640	616.4606	1.5331e8	0.7852	3.3657e-3
5	906.6730	906.6838	1.7114e8	0.7098	-0.0108
6	1254.9250	1254.9437	1.6966e7	0.6872	-0.0187
7	1545.1340	1545.1911	8.6000e6	0.7443	-0.0571
8	1952.4270	1952.4064	1.5314e7	0.6921	0.0206



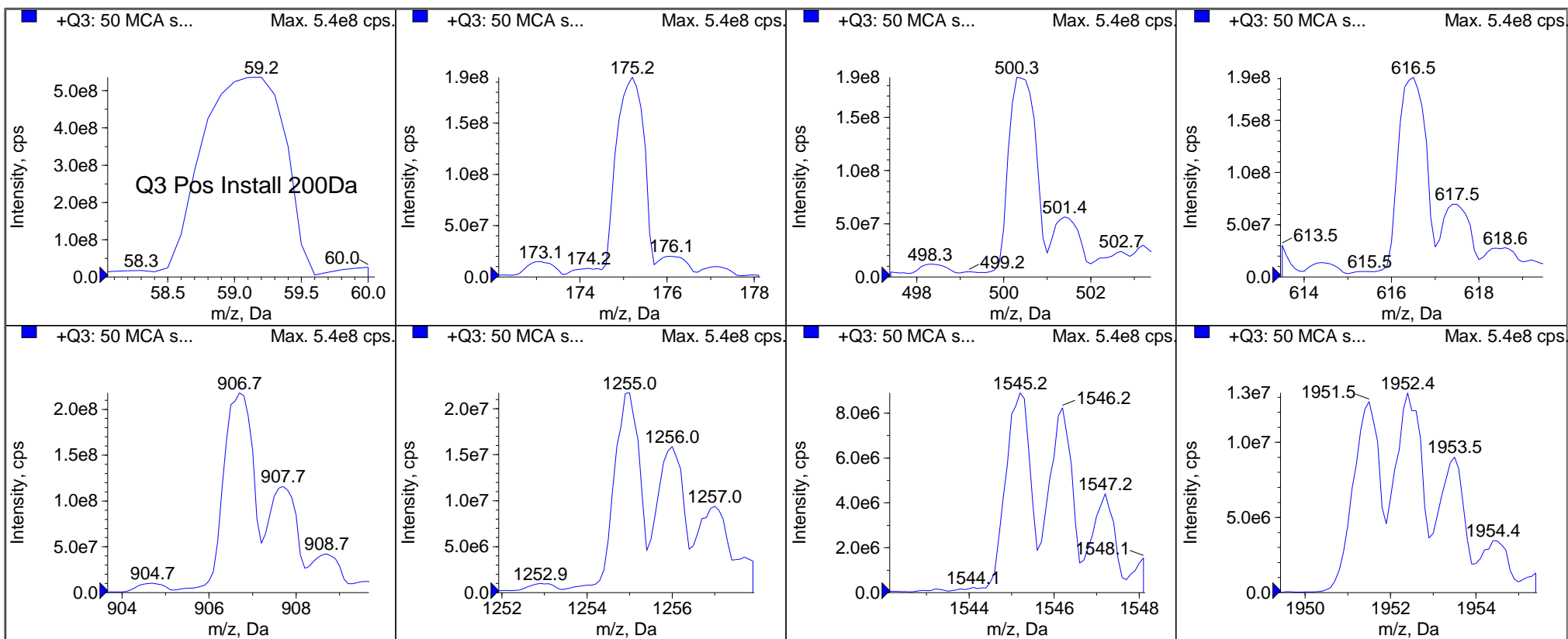
Peak List for "+Q1: 50 MCA scans from Sample 6 (Q1 Pos Install 1000Da) of install.wiff (Turbo Spray)"

	Target Mass (Da)	Found At (Da)	Intensity (cps)	Width (Da)	Mass Shift (Da)
1	59.0500	59.0648	4.7851e8	0.7086	-0.0148
2	175.1330	175.1797	1.7149e8	0.6927	-0.0467
3	500.3800	500.3886	1.9208e8	0.7825	-8.5758e-3
4	616.4640	616.4667	1.6329e8	0.7673	-2.7492e-3
5	906.6730	906.7265	1.6104e8	0.7140	-0.0535
6	1254.9250	1254.9414	1.7140e7	0.7681	-0.0164
7	1545.1340	1545.1474	5.9800e6	0.7303	-0.0134
8	1952.4270	1952.4340	1.1330e7	0.7294	-6.9695e-3



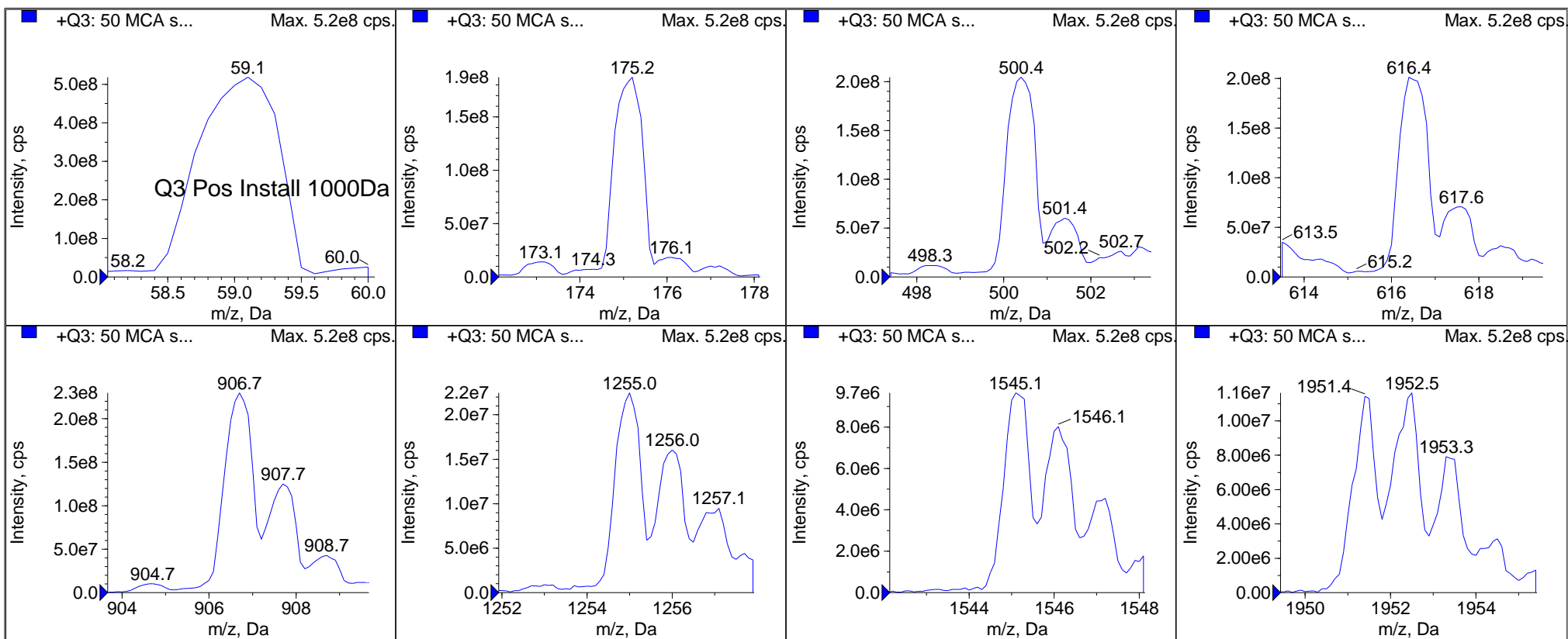
Peak List for "+Q1: 100 MCA scans from Sample 10 (Q1 Pos Install 2000Da) of install.wiff (Turbo Spray)"

	Target Mass (Da)	Found At (Da)	Intensity (cps)	Width (Da)	Mass Shift (Da)
1	59.0500	59.0564	1.1732e9	0.6764	-6.4251e-3
2	175.1330	175.1702	2.8988e8	0.7837	-0.0372
3	500.3800	500.3839	3.2090e8	0.7227	-3.9160e-3
4	616.4640	616.4719	2.7820e8	0.7483	-7.9494e-3
5	906.6730	906.6970	3.3404e8	0.7401	-0.0240
6	1254.9250	1254.9562	2.7120e7	0.6937	-0.0312
7	1545.1340	1545.1469	1.2380e7	0.7155	-0.0129
8	1952.4270	1952.4215	1.5540e7	0.7643	5.5021e-3



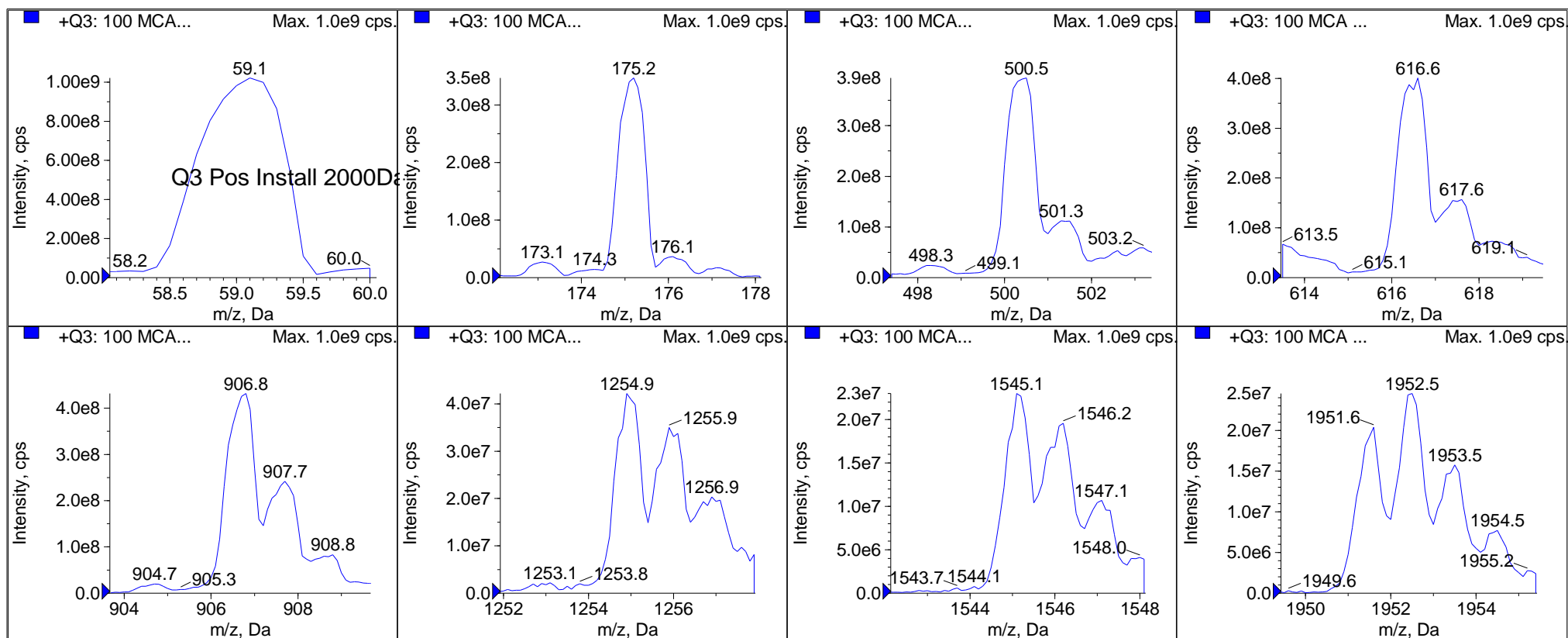
Peak List for "+Q3: 50 MCA scans from Sample 13 (Q3 Pos Install 200Da) of install.wiff (Turbo Spray)"

	Target Mass (Da)	Found At (Da)	Intensity (cps)	Width (Da)	Mass Shift (Da)
1	59.0500	59.0804	5.3614e8	0.7415	-0.0304
2	175.1330	175.1625	1.9472e8	0.7696	-0.0295
3	500.3800	500.4217	1.8780e8	0.7346	-0.0417
4	616.4640	616.4805	1.9139e8	0.7340	-0.0165
5	906.6730	906.6883	2.1793e8	0.7718	-0.0153
6	1254.9250	1254.9557	2.1726e7	0.6964	-0.0307
7	1545.1340	1545.1665	8.9020e6	0.6627	-0.0325
8	1952.4270	1952.4362	1.3284e7	0.7604	-9.1744e-3



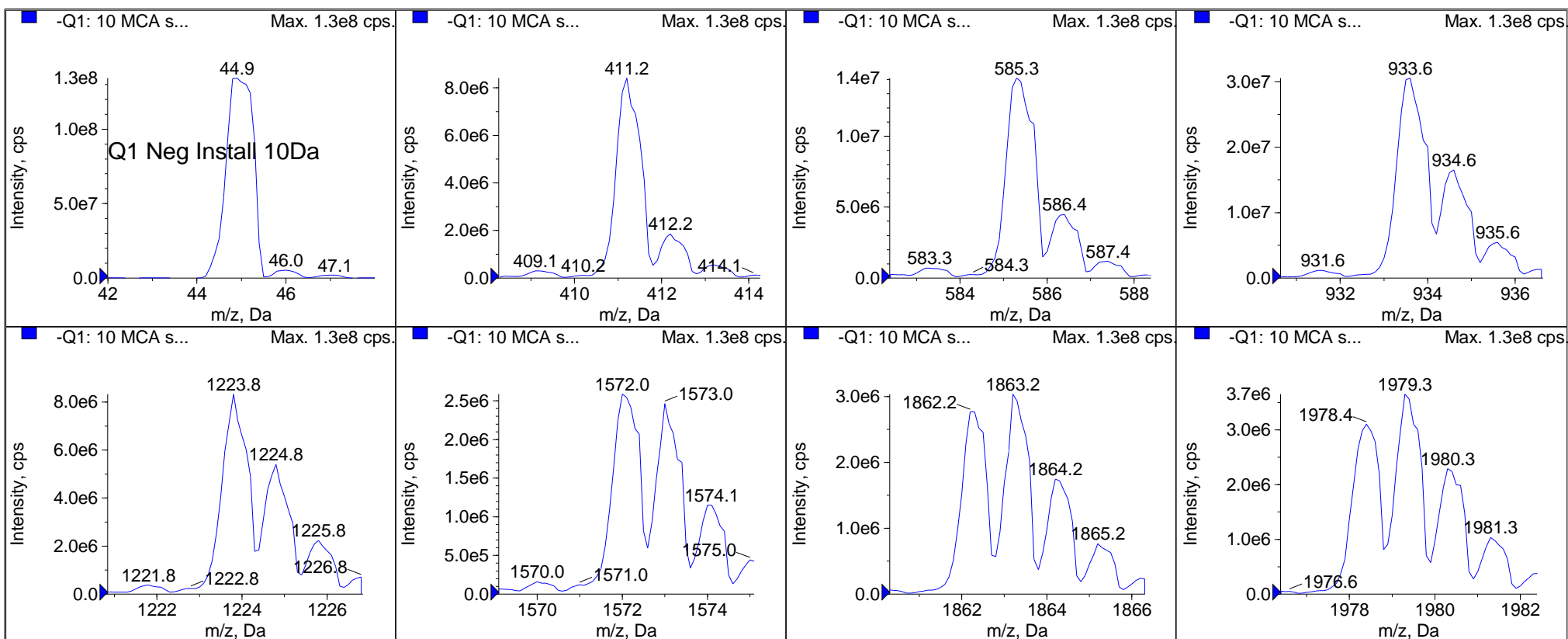
Peak List for "+Q3: 50 MCA scans from Sample 15 (Q3 Pos Install 1000Da) of install.wiff (Turbo Spray)"

	Target Mass (Da)	Found At (Da)	Intensity (cps)	Width (Da)	Mass Shift (Da)
1	59.0500	59.0403	5.1838e8	0.7270	9.6577e-3
2	175.1330	175.1121	1.8707e8	0.7715	0.0209
3	500.3800	500.4031	2.0450e8	0.7435	-0.0231
4	616.4640	616.5064	2.0114e8	0.7517	-0.0424
5	906.6730	906.6946	2.2973e8	0.7349	-0.0216
6	1254.9250	1254.9662	2.2460e7	0.6826	-0.0412
7	1545.1340	1545.1362	9.6500e6	0.6715	-2.2062e-3
8	1952.4270	1952.3801	1.1630e7	0.7379	0.0469



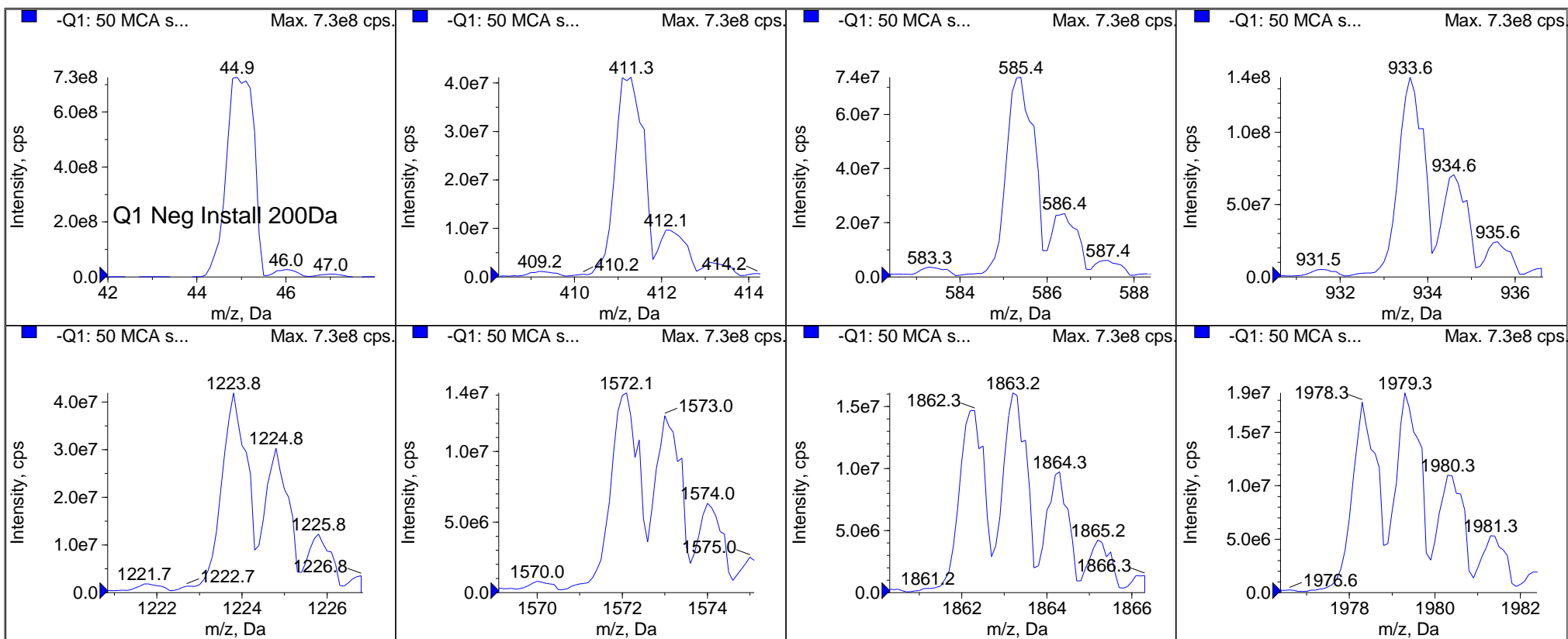
Peak List for "+Q3: 100 MCA scans from Sample 17 (Q3 Pos Install 2000Da) of install.wiff (Turbo Spray)"

	Target Mass (Da)	Found At (Da)	Intensity (cps)	Width (Da)	Mass Shift (Da)
1	59.0500	59.0496	1.0214e9	0.7567	4.2041e-4
2	175.1330	175.1604	3.4686e8	0.7087	-0.0274
3	500.3800	500.3696	3.9416e8	0.7648	0.0104
4	616.4640	616.4845	4.0092e8	0.7695	-0.0205
5	906.6730	906.6952	4.3156e8	0.7617	-0.0222
6	1254.9250	1254.9437	4.2180e7	0.7073	-0.0187
7	1545.1340	1545.1412	2.3000e7	0.7005	-7.1812e-3
8	1952.4270	1952.4752	2.4520e7	0.7113	-0.0482



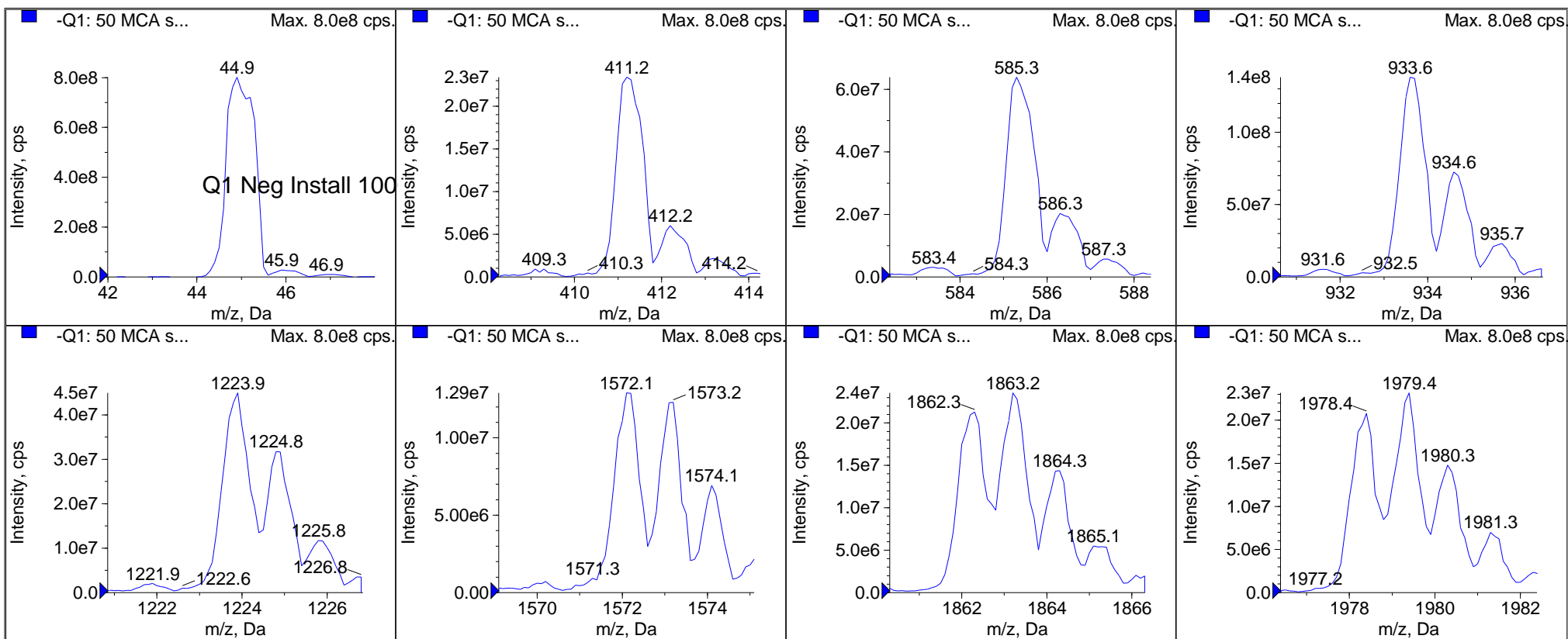
Peak List for "-Q1: 10 MCA scans from Sample 18 (Q1 Neg Install 10Da) of install.wiff (Turbo Spray)"

	Target Mass (Da)	Found At (Da)	Intensity (cps)	Width (Da)	Mass Shift (Da)
1	44.9980	44.9894	1.3432e8	0.7047	8.6257e-3
2	411.2590	411.2372	8.4099e6	0.6597	0.0218
3	585.3850	585.3907	1.4098e7	0.7457	-5.6622e-3
4	933.6360	933.6316	3.0576e7	0.7779	4.3655e-3
5	1223.8450	1223.8582	8.3259e6	0.7170	-0.0132
6	1572.0970	1572.1139	2.5866e6	0.7235	-0.0169
7	1863.3060	1863.3174	3.0348e6	0.6549	-0.0114
8	1979.3890	1979.3922	3.6519e6	0.6873	-3.1591e-3



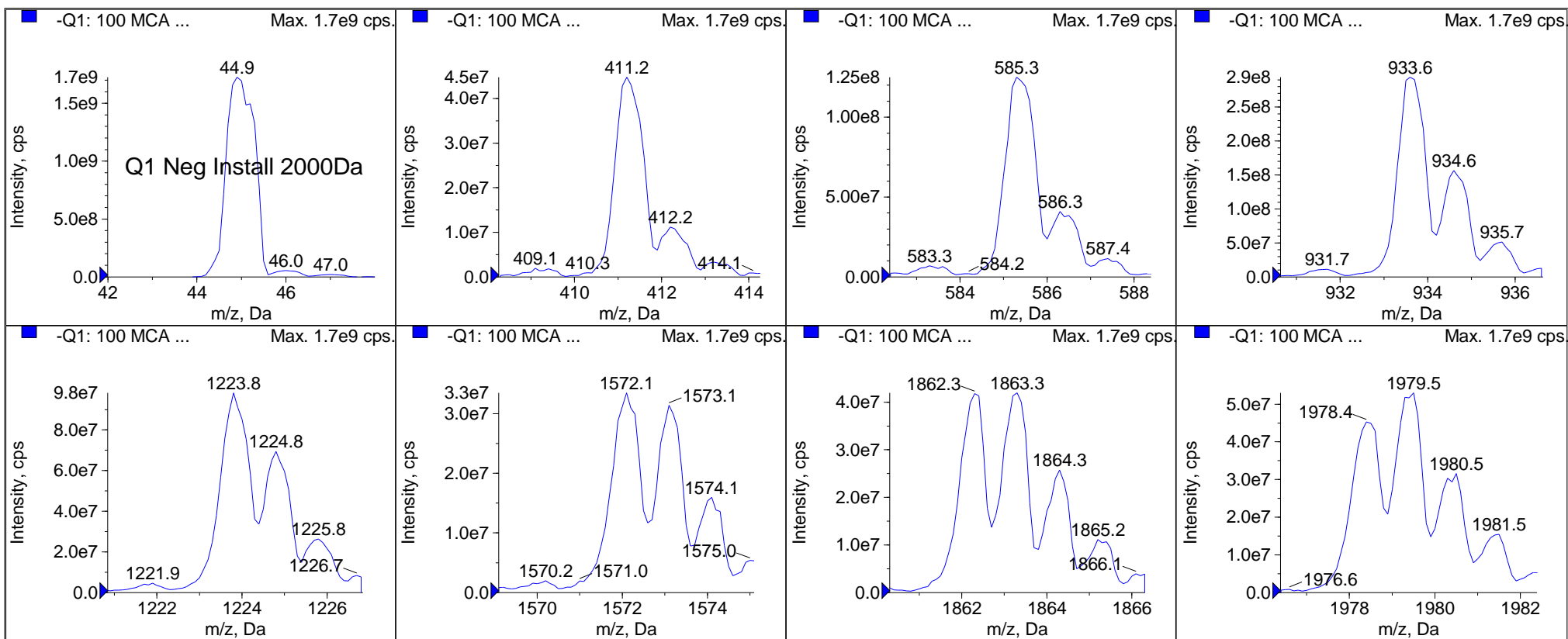
Peak List for "-Q1: 50 MCA scans from Sample 19 (Q1 Neg Install 200Da) of install.wiff (Turbo Spray)"

	Target Mass (Da)	Found At (Da)	Intensity (cps)	Width (Da)	Mass Shift (Da)
1	44.9980	44.9993	7.2654e8	0.7041	-1.3403e-3
2	411.2590	411.2764	4.1184e7	0.7524	-0.0174
3	585.3850	585.3939	7.3716e7	0.7697	-8.9033e-3
4	933.6360	933.6379	1.3804e8	0.6732	-1.8609e-3
5	1223.8450	1223.8513	4.1902e7	0.7291	-6.2520e-3
6	1572.0970	1572.0840	1.4152e7	0.7491	0.0130
7	1863.3060	1863.2545	1.6090e7	0.6593	0.0515
8	1979.3890	1979.4088	1.8690e7	0.6791	-0.0198



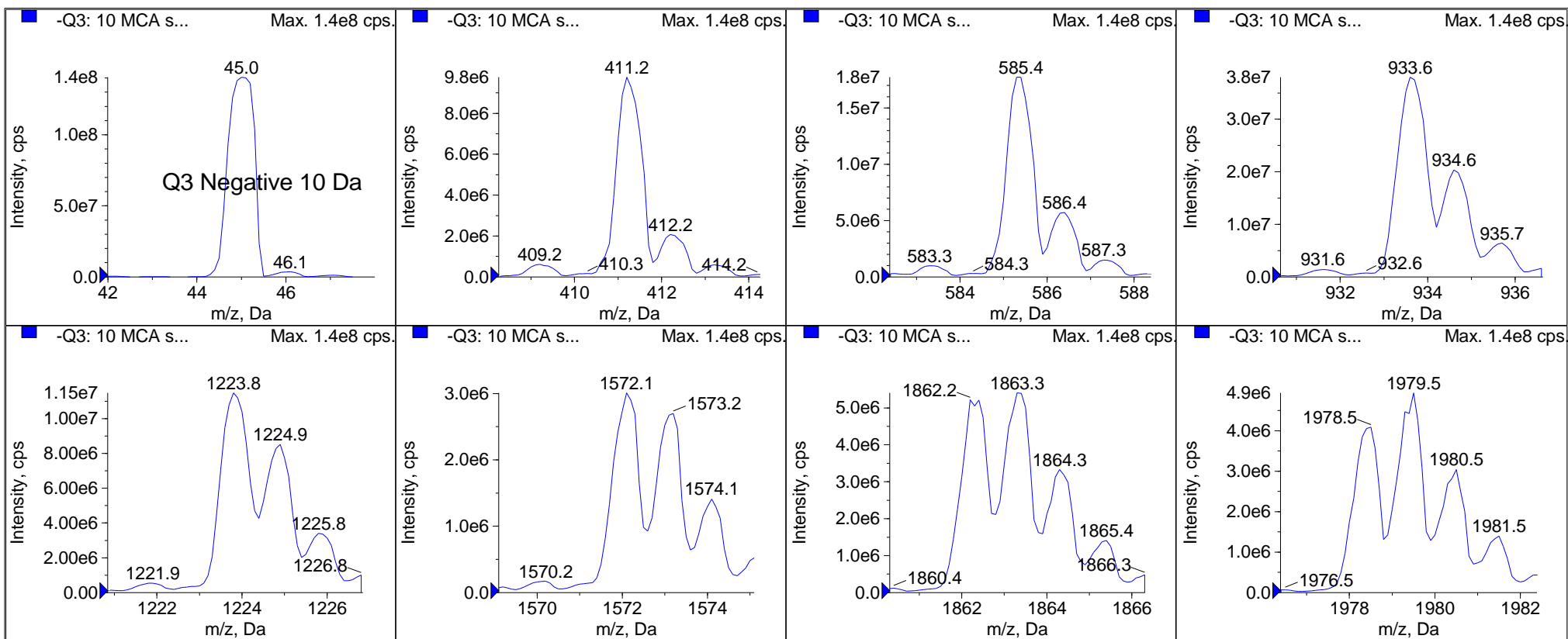
Peak List for "-Q1: 50 MCA scans from Sample 23 (Q1 Neg Install 1000Da) of install.wiff (Turbo Spray)"

	Target Mass (Da)	Found At (Da)	Intensity (cps)	Width (Da)	Mass Shift (Da)
1	44.9980	44.9864	8.0151e8	0.7473	0.0116
2	411.2590	411.2685	2.3400e7	0.7052	-9.5107e-3
3	585.3850	585.3807	6.3900e7	0.7556	4.3102e-3
4	933.6360	933.6498	1.3809e8	0.6695	-0.0138
5	1223.8450	1223.8547	4.4950e7	0.7121	-9.7335e-3
6	1572.0970	1572.1174	1.2900e7	0.6657	-0.0204
7	1863.3060	1863.2173	2.3540e7	0.7296	0.0887
8	1979.3890	1979.3418	2.3160e7	0.7006	0.0472



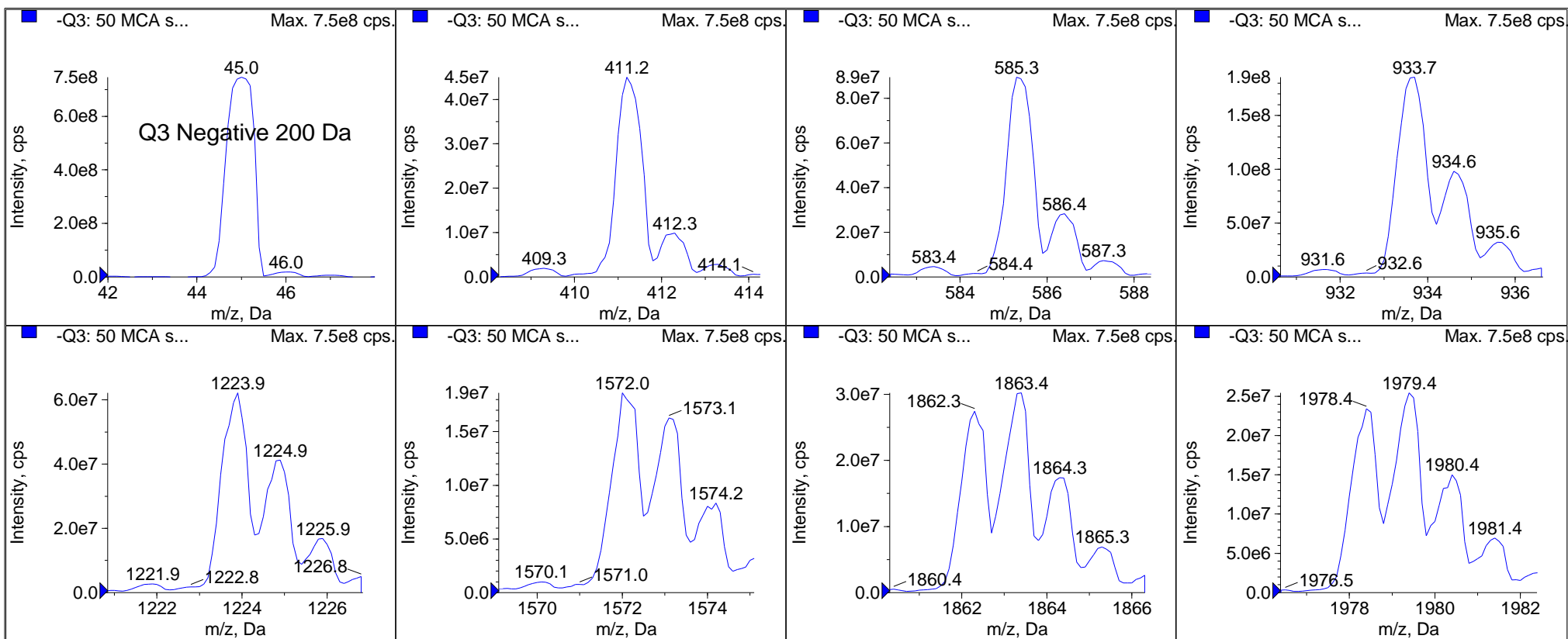
Peak List for "-Q1: 100 MCA scans from Sample 24 (Q1 Neg Install 2000Da) of install.wiff (Turbo Spray)"

	Target Mass (Da)	Found At (Da)	Intensity (cps)	Width (Da)	Mass Shift (Da)
1	44.9980	44.9880	1.7251e9	0.7611	9.9585e-3
2	411.2590	411.2611	4.4780e7	0.7374	-2.0546e-3
3	585.3850	585.3939	1.2502e8	0.7787	-8.9263e-3
4	933.6360	933.6380	2.9386e8	0.6982	-1.9996e-3
5	1223.8450	1223.8476	9.8200e7	0.7811	-2.6265e-3
6	1572.0970	1572.1066	3.3460e7	0.7562	-9.6418e-3
7	1863.3060	1863.2644	4.1940e7	0.6805	0.0416
8	1979.3890	1979.3960	5.2980e7	0.7562	-6.9662e-3



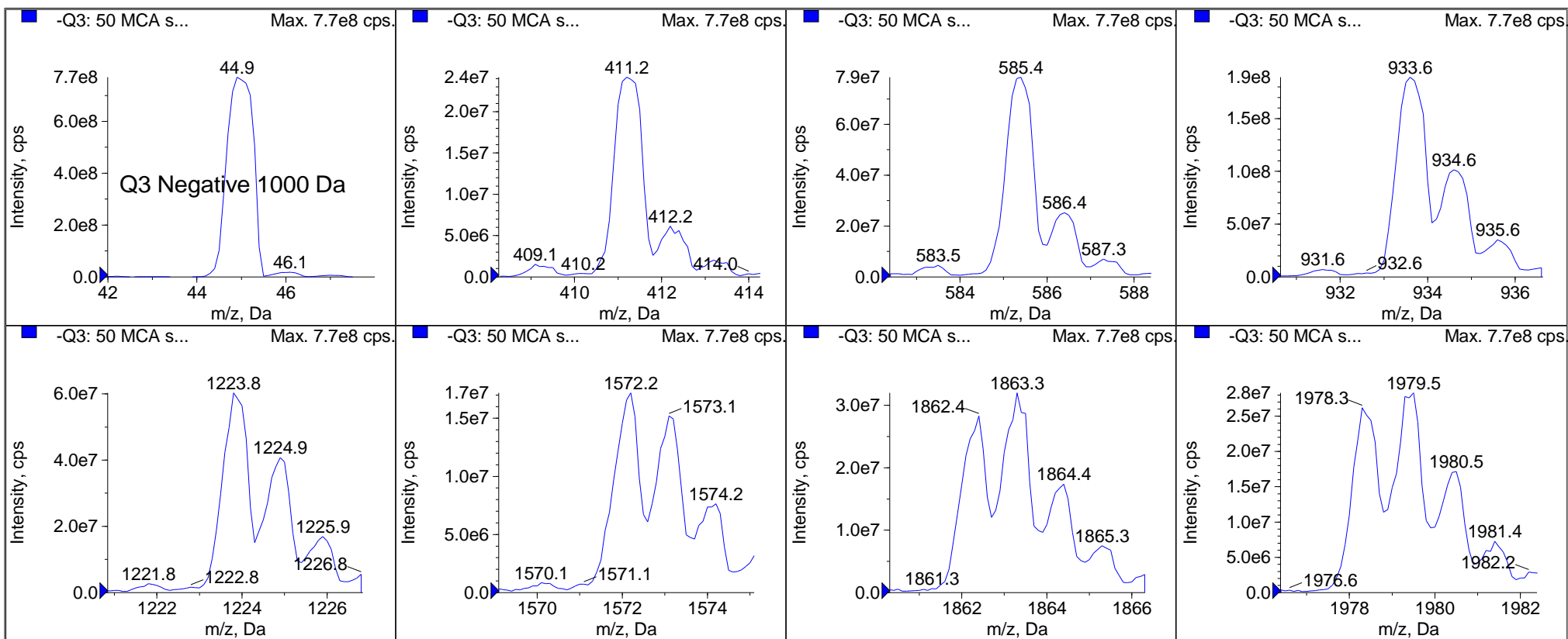
Peak List for "-Q3: 10 MCA scans from Sample 26 (Q3 Negative 10 Da) of install.wiff (Turbo Spray)"

	Target Mass (Da)	Found At (Da)	Intensity (cps)	Width (Da)	Mass Shift (Da)
1	44.9980	45.0134	1.4051e8	0.6920	-0.0154
2	411.2590	411.2526	9.7652e6	0.6690	6.4460e-3
3	585.3850	585.3686	1.7726e7	0.6768	0.0164
4	933.6360	933.6456	3.7994e7	0.7613	-9.5546e-3
5	1223.8450	1223.8315	1.1473e7	0.7852	0.0135
6	1572.0970	1572.0954	3.0088e6	0.6939	1.6305e-3
7	1863.3060	1863.3164	5.4048e6	0.7327	-0.0104
8	1979.3890	1979.4295	4.9341e6	0.6800	-0.0405



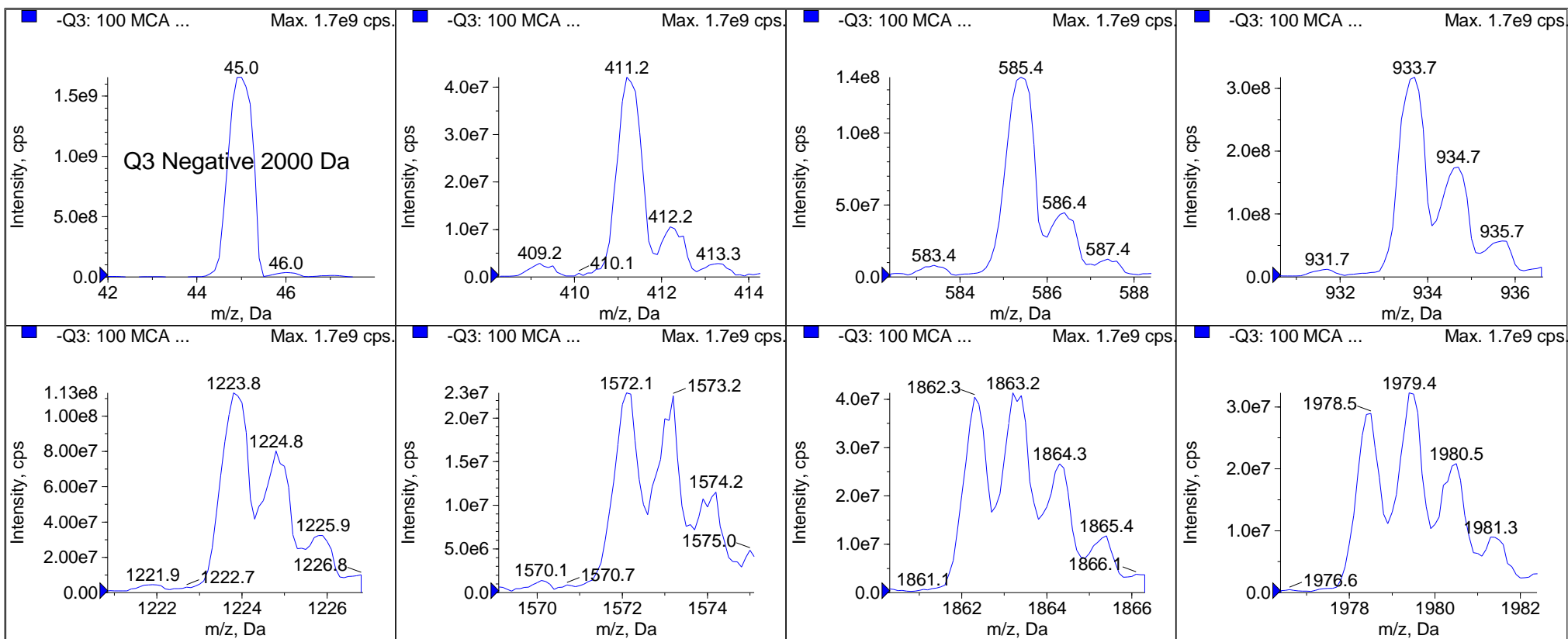
Peak List for "-Q3: 50 MCA scans from Sample 28 (Q3 Negative 200 Da) of install.wiff (Turbo Spray)"

	Target Mass (Da)	Found At (Da)	Intensity (cps)	Width (Da)	Mass Shift (Da)
1	44.9980	44.9944	7.4614e8	0.7254	3.5718e-3
2	411.2590	411.2531	4.4996e7	0.6681	5.9042e-3
3	585.3850	585.3793	8.9410e7	0.6727	5.6663e-3
4	933.6360	933.6335	1.8547e8	0.7450	2.4573e-3
5	1223.8450	1223.8351	6.2154e7	0.7048	9.9069e-3
6	1572.0970	1572.1023	1.8610e7	0.7474	-5.2829e-3
7	1863.3060	1863.3071	3.0214e7	0.7125	-1.1213e-3
8	1979.3890	1979.3712	2.5426e7	0.7282	0.0178



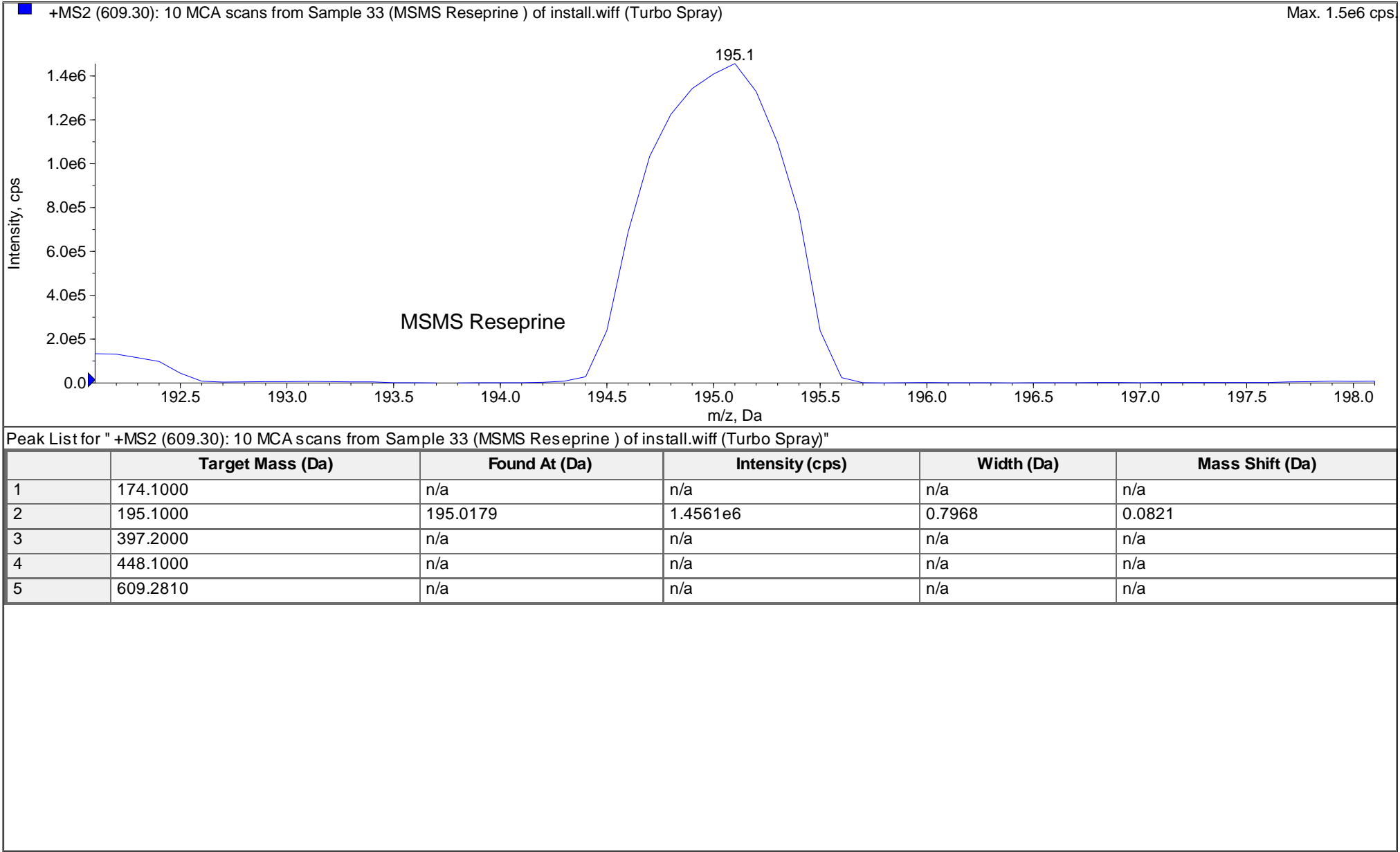
Peak List for "-Q3: 50 MCA scans from Sample 29 (Q3 Negative 1000 Da) of install.wiff (Turbo Spray)"

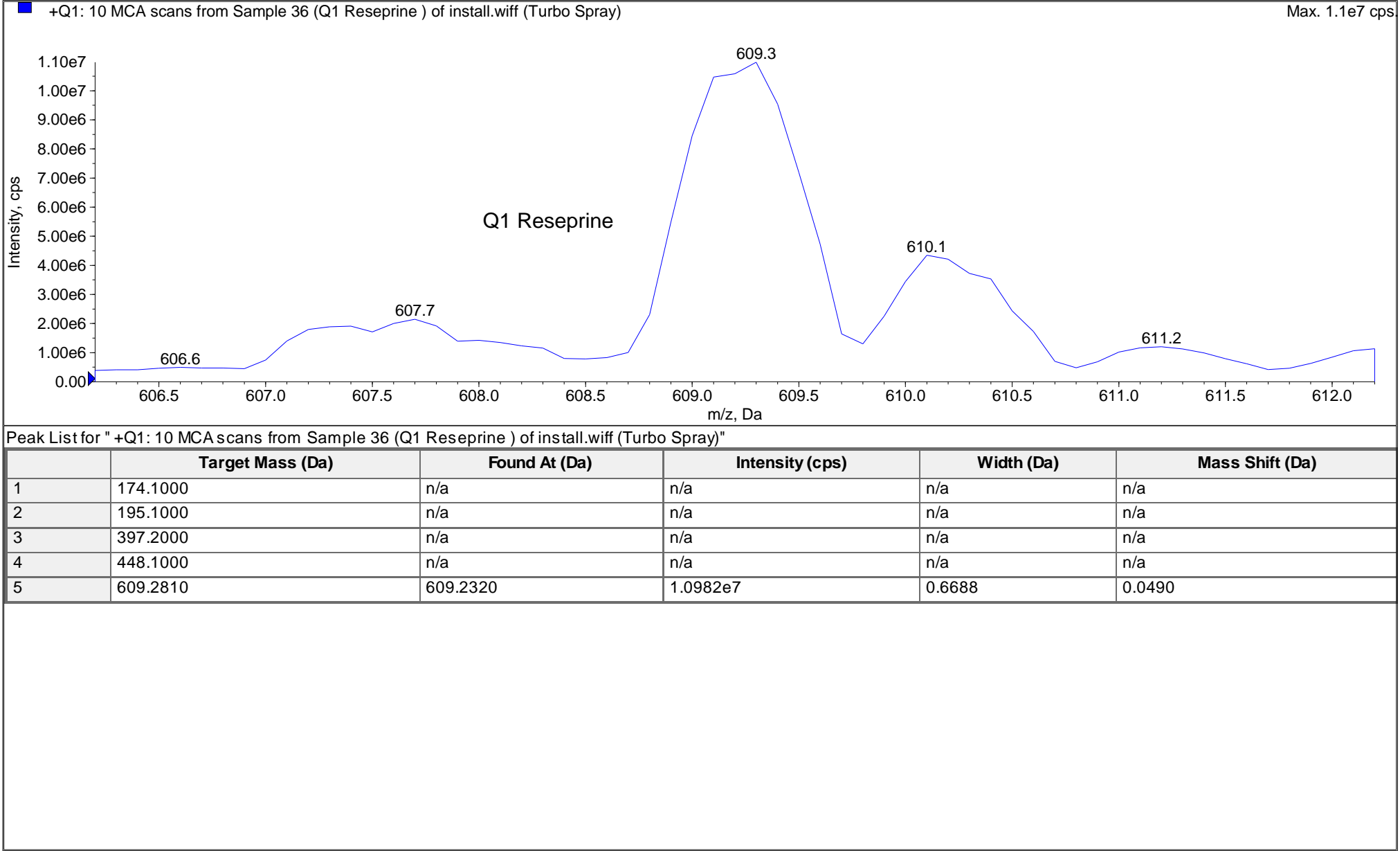
	Target Mass (Da)	Found At (Da)	Intensity (cps)	Width (Da)	Mass Shift (Da)
1	44.9980	44.9903	7.7024e8	0.7023	7.7391e-3
2	411.2590	411.2376	2.4170e7	0.7131	0.0214
3	585.3850	585.3759	7.8530e7	0.6925	9.0873e-3
4	933.6360	933.6267	1.8916e8	0.7514	9.3331e-3
5	1223.8450	1223.8645	6.0280e7	0.6755	-0.0195
6	1572.0970	1572.1262	1.7180e7	0.6806	-0.0292
7	1863.3060	1863.2868	3.1980e7	0.7323	0.0192
8	1979.3890	1979.4012	2.8290e7	0.7443	-0.0122



Peak List for "-Q3: 100 MCA scans from Sample 30 (Q3 Negative 2000 Da) of install.wiff (Turbo Spray)"

	Target Mass (Da)	Found At (Da)	Intensity (cps)	Width (Da)	Mass Shift (Da)
1	44.9980	44.9925	1.6563e9	0.6509	5.4910e-3
2	411.2590	411.2649	4.2080e7	0.6397	-5.8939e-3
3	585.3850	585.4000	1.3872e8	0.7287	-0.0150
4	933.6360	933.6455	3.1770e8	0.6689	-9.5222e-3
5	1223.8450	1223.8461	1.1316e8	0.7357	-1.1201e-3
6	1572.0970	1572.1063	2.2880e7	0.6887	-9.3284e-3
7	1863.3060	1863.2864	4.1320e7	0.7494	0.0196
8	1979.3890	1979.4449	3.2260e7	0.6531	-0.0559





LCMSMS-21-1
INSTRUMENT METHOD

Comment:
Synchronization Mode: LC Sync
Auto-Equilibration: Off
Acquisition Duration: 13min30sec
Number Of Scans: 4050
Periods In File: 1
Acquisition Module: Acquisition Method
Software version Analyst 1.7.2

MS Method Properties:

Period 1:

Scans in Period: 4050
Min. Dwell Time: 3 ms
Max. Dwell Time: 250 ms
Relative Start Time: 0.00 msec
Scheduled Ionization: Off
Experiments in Period: 2
Use target Cycle Time: Yes
Target Cycle Time: 0.4000 sec

Period 1 Experiment 1:

Scan Type: MRM (MRM)
Scheduled MRM: Yes
Polarity: Positive
Scan Mode: N/A
Ion Source: Turbo Spray
sMRM Q1Q3 Resolution: No
MRM detection window: 60 sec
Target Scan Time: N/A
Resolution Q1: Unit
Resolution Q3: Unit
Intensity Thres.: 0.00 cps
Settling Time: 50.0000 msec
MR Pause: 5.0070 msec
MCA: No
Step Size: 0.00 Da

@Q1 Mass (Da)	Q3 Mass (Da)	RT (min)	Param	Start	Stop	ID
331.100	193.100	5.03 DP	75.00	75.00		THC-OH 1
		CE	35.00	35.00		
		CXP	8.00	8.00		

@

@Q1 Mass (Da)	Q3 Mass (Da)	RT (min)	Param	Start	Stop	ID
331.100	105.100	5.03 DP	75.00	75.00		THC-OH 2
		CE	55.00	55.00		
		CXP	10.00	10.00		

@

@Q1 Mass (Da)	Q3 Mass (Da)	RT (min)	Param	Start	Stop	ID
334.100	196.100	4.99 DP	75.00	75.00		THC-OH-D3
	CE	35.00	35.00			
	CXP	8.00	8.00			

@

@Q1 Mass (Da)	Q3 Mass (Da)	RT (min)	Param	Start	Stop	ID
315.100	193.100	9.15 DP	76.00	76.00		?9-THC 1
	CE	31.00	31.00			
	CXP	6.00	6.00			

@

@Q1 Mass (Da)	Q3 Mass (Da)	RT (min)	Param	Start	Stop	ID
315.100	123.000	9.15 DP	76.00	76.00		?9-THC 2
	CE	45.00	45.00			
	CXP	12.00	12.00			

@

@Q1 Mass (Da)	Q3 Mass (Da)	RT (min)	Param	Start	Stop	ID
318.100	123.000	9.11 DP	76.00	76.00		?9-THC-D3
	CE	45.00	45.00			
	CXP	12.00	12.00			

@

@Q1 Mass (Da)	Q3 Mass (Da)	RT (min)	Param	Start	Stop	ID
315.100	193.101	9.36 DP	85.00	85.00		?8-THC 1
	CE	33.00	33.00			
	CXP	16.00	16.00			

@

@Q1 Mass (Da)	Q3 Mass (Da)	RT (min)	Param	Start	Stop	ID
315.100	123.101	9.35 DP	85.00	85.00		?8-THC 2
		CE	47.00	47.00		
		CXP	10.00	10.00		

@

@Q1 Mass (Da)	Q3 Mass (Da)	RT (min)	Param	Start	Stop	ID
318.100	123.001	9.32 DP	61.00	61.00		?8-THC-D3
		CE	45.00	45.00		
		CXP	10.00	10.00		

@

Parameter Table(Period 1 Experiment 1):

CUR: 30.00
IS: 3500.00
TEM: 600.00
GS1: 60.00
GS2: 60.00
CAD: 9.00
EP 10.00

Period 1 Experiment 2:

Scan Type: MRM (MRM)
Scheduled MRM: Yes
Polarity: Negative
Scan Mode: N/A
Ion Source: Turbo Spray
sMRM Q1Q3 Resolution: No
MRM detection window: 60 sec
Target Scan Time: N/A
Resolution Q1: Unit
Resolution Q3: Unit
Intensity Thres.: 0.00 cps
Settling Time: 50.0000 msec
MR Pause: 5.0070 msec
MCA: No
Step Size: 0.00 Da

@Q1 Mass (Da)	Q3 Mass (Da)	RT (min)	Param	Start	Stop	ID
343.000	299.100	5.35 DP	-115.00	-115.00		THC-COOH 1
		CE	-30.00	-30.00		
		CXP	-9.00	-9.00		

@

@Q1 Mass (Da)	Q3 Mass (Da)	RT (min)	Param	Start	Stop	ID
343.000	191.000	5.35 DP	-115.00	-115.00		THC-COOH 2
		CE	-44.00	-44.00		
		CXP	-11.00	-11.00		

@

@Q1 Mass (Da)	Q3 Mass (Da)	RT (min)	Param	Start	Stop	ID
346.000	194.000	5.31 DP	-110.00	-110.00		THC-COOH-D3
		CE	-44.00	-44.00		
		CXP	-7.00	-7.00		

@

Parameter Table(Period 1 Experiment 2):

CUR: 30.00
 TEM: 600.00
 GS1: 60.00
 GS2: 60.00
 CAD: 9.00
 IS: -3500.00
 EP: -10.00

Integrated Valve Method Properties
Valve Diverter

	Total Time (min)	Position
1	4.5	B
2	6.2	A
3	8.5	B
4	10.0	A

LC Method Properties

LC system Equilibration time = 0.00 min
 LC system Injection Volume = 10.00 ul

Binary Gradient

=====

Model: AC Pump , AC Pump
 <General>

Stop time:	13.50 min
Flow:	0.5000 mL/min
Pressure limits Maximum:	7000 psi
Pressure limits Minimum:	0 psi
B.Conc:	40.0 %

B.Curve: 0

<Gradient>

Time min	Flow mL/min	B.Conc %	B.Curve
0.30	0.5000	40.0	0
0.50	0.5000	55.0	0
4.50	0.5000	60.0	0
4.51	0.5000	70.0	0
9.30	0.5000	75.0	0
9.31	0.5000	95.0	0
12.00	0.5000	95.0	0
12.01	0.5000	40.0	0

<Solenoid valve>

Pump A: None

Pump B: None

<Compressibility settings>

Compressibility settings: No

<Autopurge settings>

Purge order	Mobile phase name	Purge time min
1st	None	
2nd	None	

<Init conc-replacement>

Use Init conc-replacement: No

Autosampler

=====

Model: AC Autosampler

<General>

Use Autosampler: Yes

<Sample rack settings>

Specify rack: No

Rack/Stack	Type	Needle stroke mm
Sample rack	Rack 1.5mL 105 vials	52
	Rack 1.5mL 70 vials	52
	Rack 1mL Cool	51
	Rack 4mL Cool	51
	Rack MTP 96 Cool	45
	Rack MTP 384 Cool	45
	Rack Deep Well 96 Cool	40
	Rack Deep Well 384 Cool	40

<Injection settings>

Sampling speed: 5 µL/s

Use cooler temperature: Yes

Cooler temperature: 15 °C

Control vial needle stroke: 50 mm

```

<Acquisition cycle time optimization>
  Pretreatment start timing: Off
<Rinse settings>
  Rinse mode: Before and after aspiration
  Rinse dip time: 0 s
  Rinsing speed: 35 µL/s
  Rinsing volume: 500 µL
<Purge settings>
  Purge time: 25.0 min
<Autopurge settings>
  Execute sampler purge: No

```

Column Oven

=====

```

Model: AC Column Oven
<General>
  Use Column Oven: Yes
  Oven temperature: 35 °C
  Temperature limit (Maximum): 90 °C
<Advanced>
  Wait for temperature equilibration before run: Yes
<Valve>
  Valve L: None
  Valve R: None

```

System Controller


=====

```

Model: Controller
<General>
  Execute autopurge before analysis: No
<External output settings>
  Power on: No
  Event 1: No
  Event 2: No
  Event 3: No
  Event 4: No
<Autopurge settings>
  <Warm up>
    Wait time: 0 min
    Binary Gradient flow: 0.0000 mL/min
  <Execute after autopurge>
    Turn oven(s) on after autopurge: No
    Turn pump(s) on after autopurge: No

```

CALIBRATOR, CONTROL, AND INTERNAL STANDARD PREPARATION

	FS-126 Cannabinoids Blood IS Lot Log	
	Document #: 34977	Page 1 of 1
	Revision #: 3	Issued Date: 10/05/2022
	Document Manager: Nicholas Fillingier	Approved By: Nicholas Fillingier

LC-CANNABINOID INTERNAL STANDARD PREPARATION PROCEDURE/LOT LOG (10 ML VOLUME)

Date Prepared:	
Prepared by:	
Expiration Date:	
Standards Checked:	

Analyte	CRM Concentration (mg/mL)	Lot Number	Expiration Date
Δ9-THC-D3	0.1		
Δ8-THC-D3	0.1		
Δ9-THC-OH-D3	0.1		
Δ9-THC-COOH-D3	0.1		

Methanol Lot:	
Pipettes Used:	
Volumetric Flask ID:	


Procedure

Add approximately 2 mL of methanol to a 10 mL volumetric flask. Add appropriate amount of standard to the volumetric flask. Fill to the mark with methanol. Mix solution and transfer to vial.

Analyte	Final Blood concentration (ng/mL)	IS concentration (ng/mL)	Volume of standard added (μL)
Δ9-THC-D3	50	1250	<input type="checkbox"/> 125
Δ8-THC-D3	50	1250	<input type="checkbox"/> 125
Δ9-THC-OH-D3	10	250	<input type="checkbox"/> 25
Δ9-THC-COOH-D3	50	1250	<input type="checkbox"/> 125

Storage

Store in freezer (-15°C)

	FS-127 Cannabinoids Cals and Controls Lot Log	
	Document #: 34981	Page 1 of 6
	Revision #: 3	Issued Date: 10/05/2022
	Document Manager: Nicholas Fillinger	Approved By: Nicholas Fillinger

PREPARATION PROCEDURE AND LOT LOG FOR LC-CANNABINOID CALIBRATION MIXTURES

Date Prepared:	
Prepared by:	
Expiration Date:	
Standards Checked:	


Calibrator concentrations (ng/mL)						
	STD1	STD2	STD3	STD4	STD5	STD6
Group A	25	125	750	1250	1750	2500
Group B	25	100	200	300	400	500
Group C	125	250	625	1250	1875	2500
Final blood concentrations (ng/mL) 20 µL into 0.5 mL blood						
	STD1	STD2	STD3	STD4	STD5	STD6
Group A	1	5	30	50	70	100
Group B	1	4	8	12	16	20
Group C	5	10	25	50	75	100

Calibrator CRMs				
	Analyte	CRM Concentration	Lot Number	Expiration Date
Group A	Δ9-THC	1.0 mg/mL		
	Δ8-THC	1.0 mg/mL		
Group B	Δ9-THC-OH	1.0 mg/mL		
Group C	Δ9-THC-COOH	1.0 mg/mL		

Stock Solution A – 10000 ng/mL in methanol

Add approximately 2 mL of methanol to a 10 mL volumetric flask. Add the appropriate volume of each standard to the volumetric flask. Fill to the mark with methanol.

Stock Solution A	Standard Stock
Volumetric flask	<input type="checkbox"/> 10 mL
Δ9-THC	<input type="checkbox"/> 100 µL
Δ8-THC	<input type="checkbox"/> 100 µL

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	Document Manager: Nicholas Fillinger	Approved By: Nicholas Fillinger

Methanol Lot:	
Pipettes Used:	
Volumetric Flask ID:	

Stock Solution B – 10000 ng/mL in methanol

Add approximately 2 mL of methanol to a 10 mL volumetric flask. Add the appropriate volume of standard to the volumetric flask. Fill to the mark with methanol.

Stock Solution B	Standard Stock
Volumetric flask	<input type="checkbox"/> 10 mL
Δ9-THC-OH	<input type="checkbox"/> 100 µL


Methanol Lot:	
Pipettes Used:	
Volumetric Flask ID:	

Stock Solution C – 25000 ng/mL in methanol

Add approximately 2 mL of methanol to a 5 mL volumetric flask. Add the appropriate volume of standard to the volumetric flask. Fill to the mark with methanol.

Stock Solution C	Standard Stock
Volumetric flask	<input type="checkbox"/> 5 mL
Δ9-THC-COOH	<input type="checkbox"/> 125 µL

Methanol Lot:	
Pipettes Used:	
Volumetric Flask ID:	

	FS-127 Cannabinoids Cals and Controls Lot Log	
	Document #: 34981	Page 3 of 6
	Revision #: 3	Issued Date: 10/05/2022
	Document Manager: Nicholas Fillinger	Approved By: Nicholas Fillinger

Calibrators


Add approximately 2 mL of methanol to each 5 mL volumetric flask. Use the table below to determine the volume of each stock solution or CRM for each calibrator level. Fill to mark on volumetric flask with methanol.

			Volume of Stock Solution		
Calibrator	Volumetric Flask	Vol. Flask ID	Group A	Group B	Group C
Standard 1	<input type="checkbox"/> 5 mL		<input type="checkbox"/> 12.5 µL	<input type="checkbox"/> 12.5 µL	<input type="checkbox"/> 25 µL
Standard 2	<input type="checkbox"/> 5 mL		<input type="checkbox"/> 62.5 µL	<input type="checkbox"/> 50 µL	<input type="checkbox"/> 50 µL
Standard 3	<input type="checkbox"/> 5 mL		<input type="checkbox"/> 375 µL	<input type="checkbox"/> 100 µL	<input type="checkbox"/> 125 µL
Standard 4	<input type="checkbox"/> 5 mL		<input type="checkbox"/> 625 µL	<input type="checkbox"/> 150 µL	<input type="checkbox"/> 250 µL
Standard 5	<input type="checkbox"/> 5 mL		<input type="checkbox"/> 875 µL	<input type="checkbox"/> 200 µL	<input type="checkbox"/> 375 µL
Standard 6	<input type="checkbox"/> 5 mL		<input type="checkbox"/> 12.5 µL*	<input type="checkbox"/> 250 µL	<input type="checkbox"/> 500 µL
<i>Volumes marked with an asterisk (*) are prepared using the CRM vial</i>					

Methanol Lot:	
Pipettes Used:	

Storage

Store in freezer (-15°C)

	FS-127 Cannabinoids Cals and Controls Lot Log	
	Document #: 34981	Page 4 of 6
	Revision #: 3	Issued Date: 10/05/2022
	Document Manager: Nicholas Fillinger	Approved By: Nicholas Fillinger

PREPARATION PROCEDURE AND LOT LOG FOR LC-CANNABINOID CONTROL MIXTURES

Date Prepared:	
Prepared by:	
Expiration Date:	
Standards Checked:	


Control concentrations (ng/mL)			
	LOW	MEDIUM	HIGH
Group A	75	1000	2000
Group B	50	250	450
Group C	200	1000	2000
Final blood concentrations (ng/mL) 20 µL into 0.5 mL blood			
	LOW	MEDIUM	HIGH
Group A	3	40	80
Group B	2	10	18
Group C	8	40	80

Control CRMs				
	Analyte	CRM Concentration	Lot Number	Expiration Date
Group A	Δ9-THC	1.0 ng/mL		
	Δ8-THC	1.0 ng/mL		
Group B	Δ9-THC-OH	1.0 ng/mL		
Group C	Δ9-THC-COOH	1.0 ng/mL		

Stock Solution A – 10000 ng/mL in methanol

Add approximately 2 mL of methanol to a 10 mL volumetric flask. Add the appropriate volume of each standard to the volumetric flask. Fill to the mark with methanol.

Stock Solution A	Standard Stock
Volumetric flask	<input type="checkbox"/> 10 mL
Δ9-THC	<input type="checkbox"/> 100 µL
Δ8-THC	<input type="checkbox"/> 100 µL

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	Document Manager: Nicholas Fillinger	Approved By: Nicholas Fillinger

Methanol Lot:	
Pipettes Used:	
Volumetric Flask ID:	

Stock Solution B – 10000 ng/mL in methanol

Add approximately 2 mL of methanol to a 5 mL volumetric flask. Add the appropriate volume of standard to the volumetric flask. Fill to the mark with methanol.

Stock Solution B	Standard Stock
Volumetric flask	<input type="checkbox"/> 5 mL
Δ9-THC-OH	<input type="checkbox"/> 50 µL


Methanol Lot:	
Pipettes Used:	
Volumetric Flask ID:	

Stock Solution C – 25000 ng/mL in methanol

Add approximately 2 mL of methanol to a 5 mL volumetric flask. Add the appropriate volume of standard to the volumetric flask. Fill to the mark with methanol.

Stock Solution C	Standard Stock
Volumetric flask	<input type="checkbox"/> 5 mL
Δ9-THC-COOH	<input type="checkbox"/> 125 µL

Methanol Lot:	
Pipettes Used:	
Volumetric Flask ID:	

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Controls

Add approximately 2 mL of methanol to each 5 mL volumetric flask. Use the table below to determine the volume of each stock solution or CRM for each control level. Fill to mark on volumetric flask with methanol.

			Volume of Stock Solution		
Control	Volumetric Flask	Vol. Flask ID	Group A	Group B	Group C
Low	<input type="checkbox"/> 5 mL		<input type="checkbox"/> 37.5 µL	<input type="checkbox"/> 25 µL	<input type="checkbox"/> 40 µL
Medium	<input type="checkbox"/> 5 mL		<input type="checkbox"/> 500 µL	<input type="checkbox"/> 125 µL	<input type="checkbox"/> 200 µL
High	<input type="checkbox"/> 5 mL		<input type="checkbox"/> 1000 µL	<input type="checkbox"/> 225 µL	<input type="checkbox"/> 400 µL

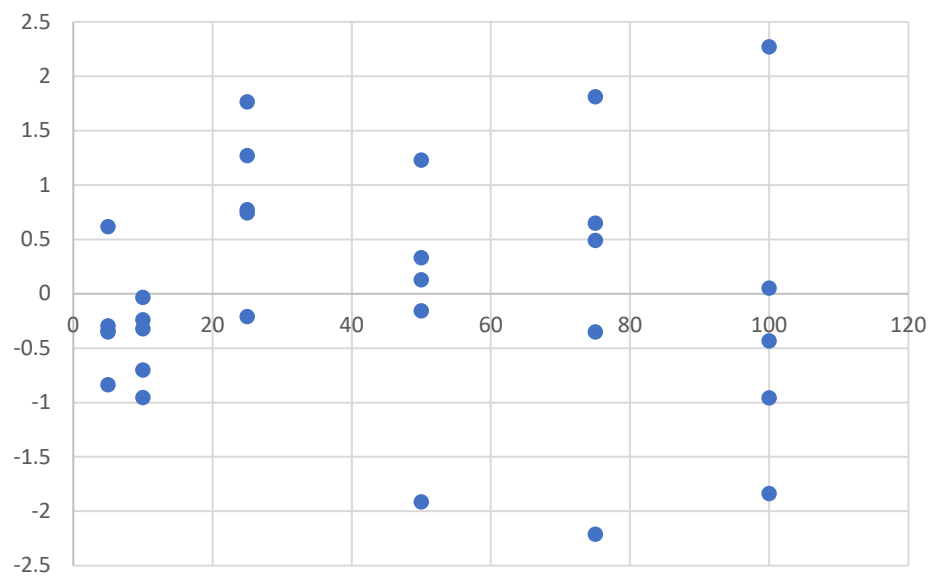
Methanol Lot:	
Pipettes Used:	

Storage

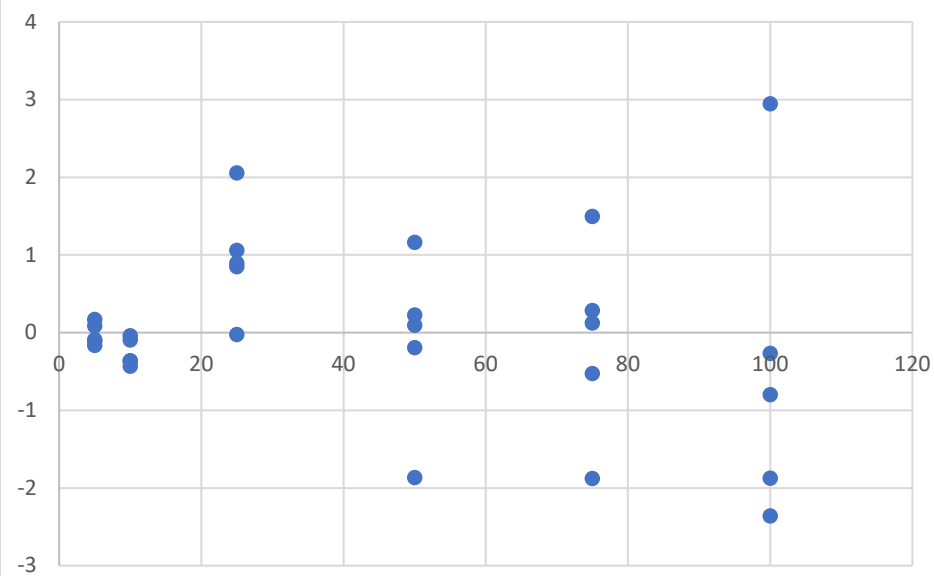
Store in freezer (-15°C)

CALIBRATION MODEL RESIDUALS

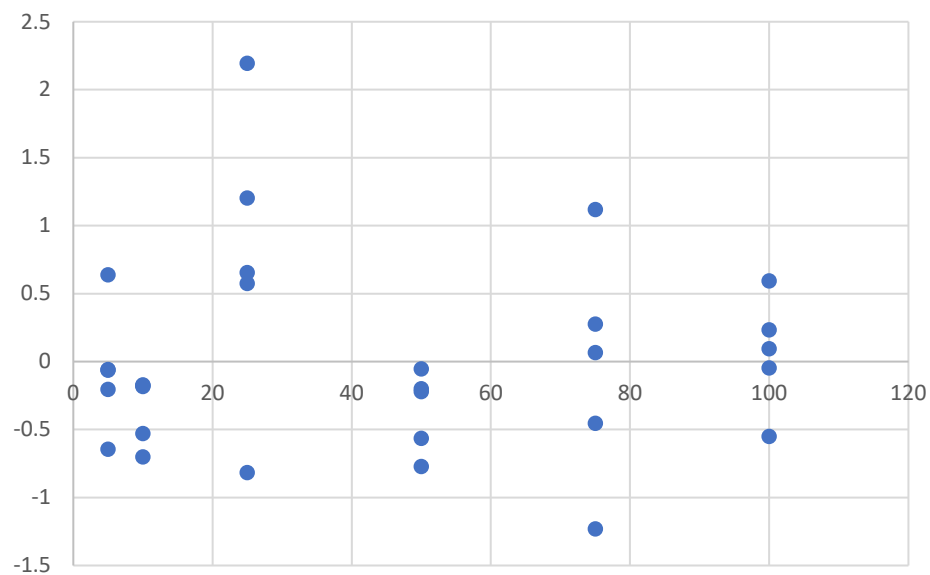
THC-COOH - Linear



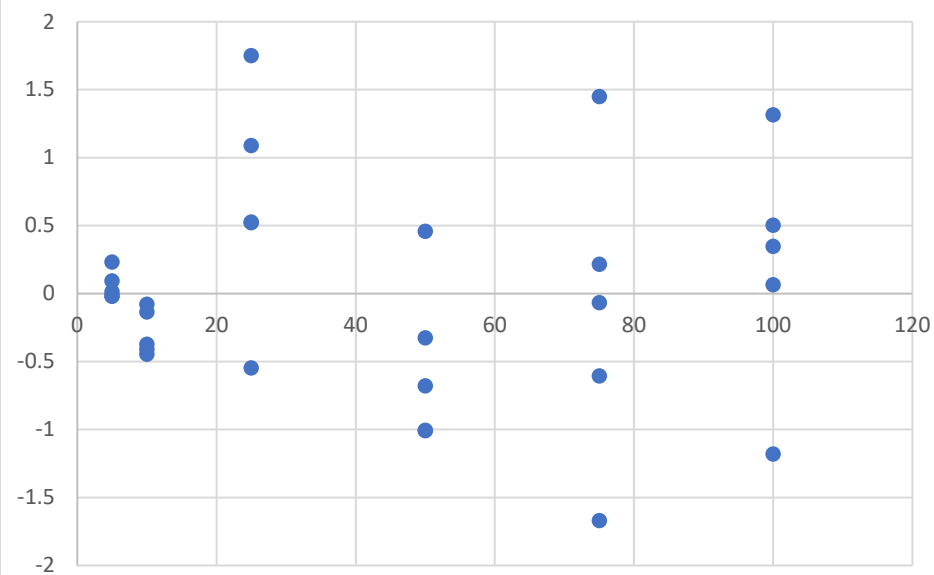
THC-COOH - Linear 1/x



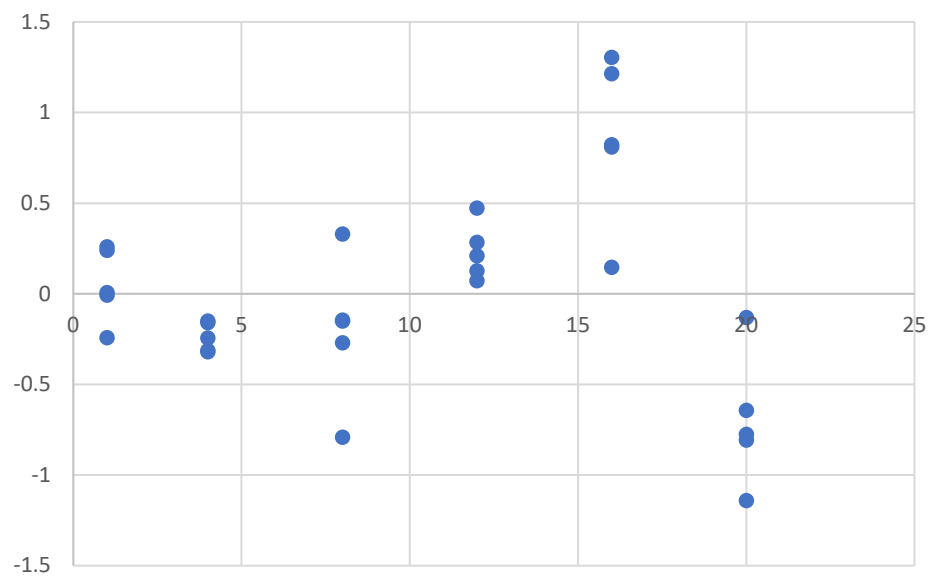
THC-COOH - Quadratic



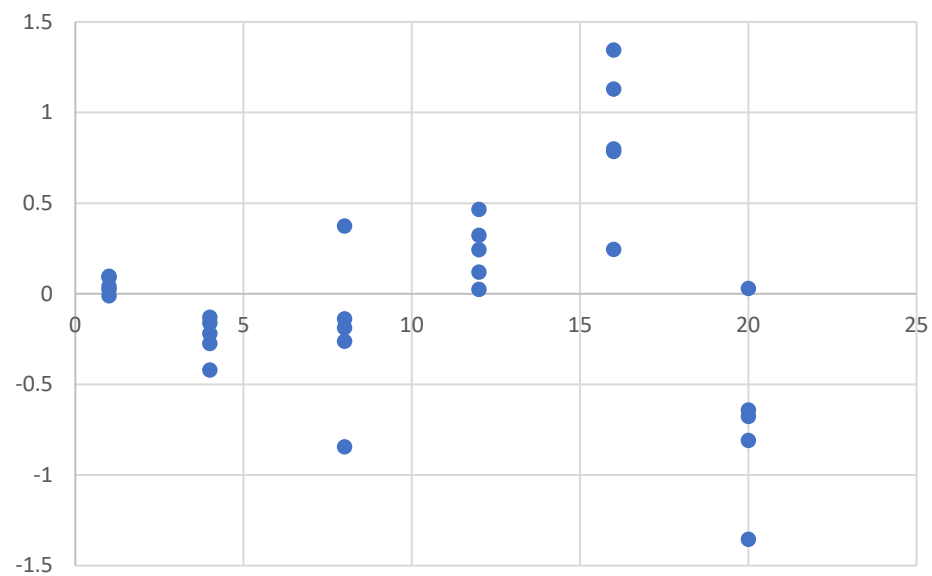
THC-COOH - Quadratic 1/x



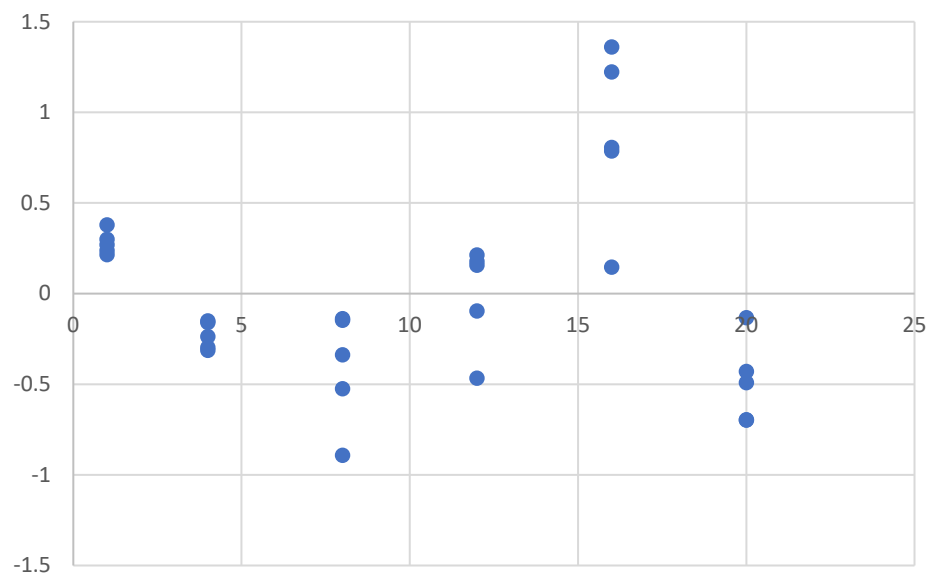
THC-OH - Linear



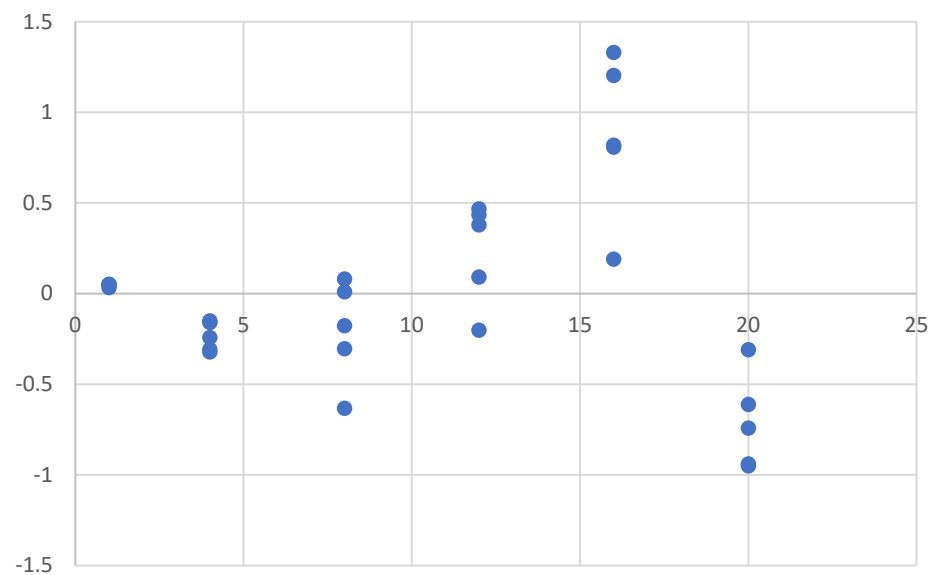
THC-OH - Linear 1/x



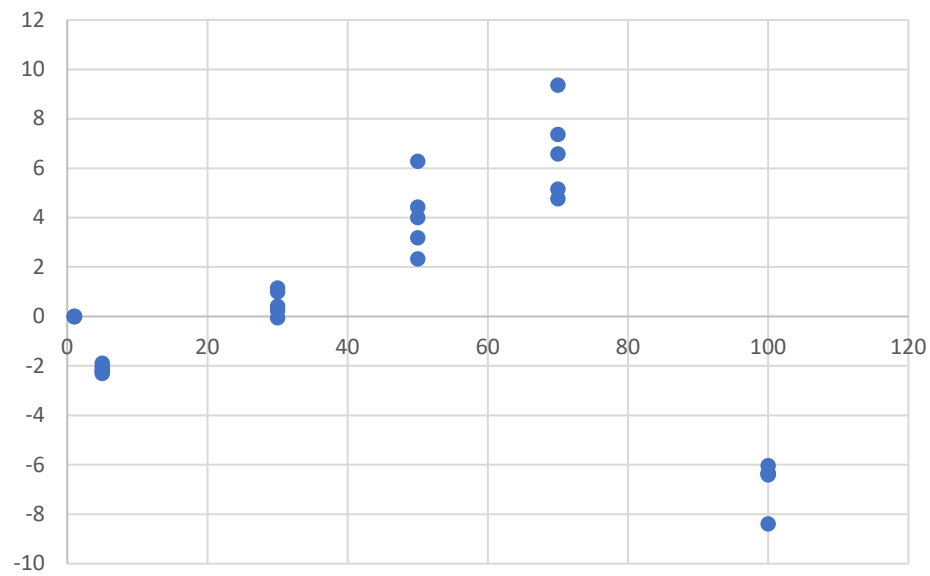
THC-OH - Quadratic



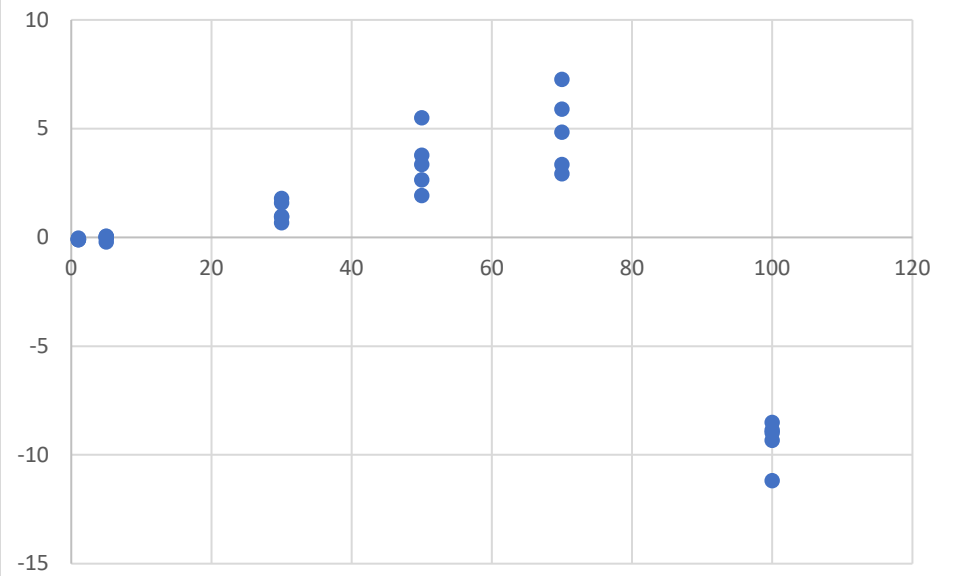
THC-OH - Quadratic 1/x



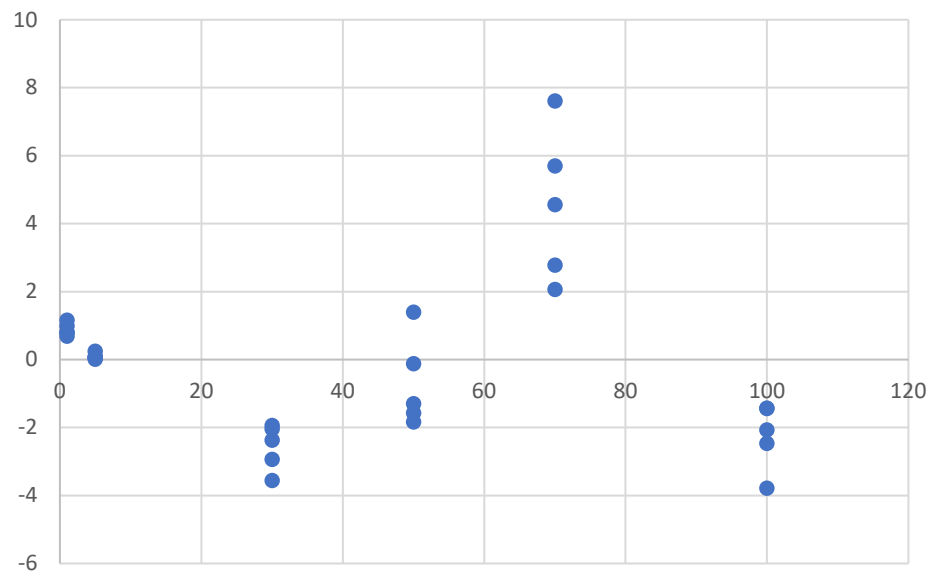
$\Delta 8$ -THC - Linear



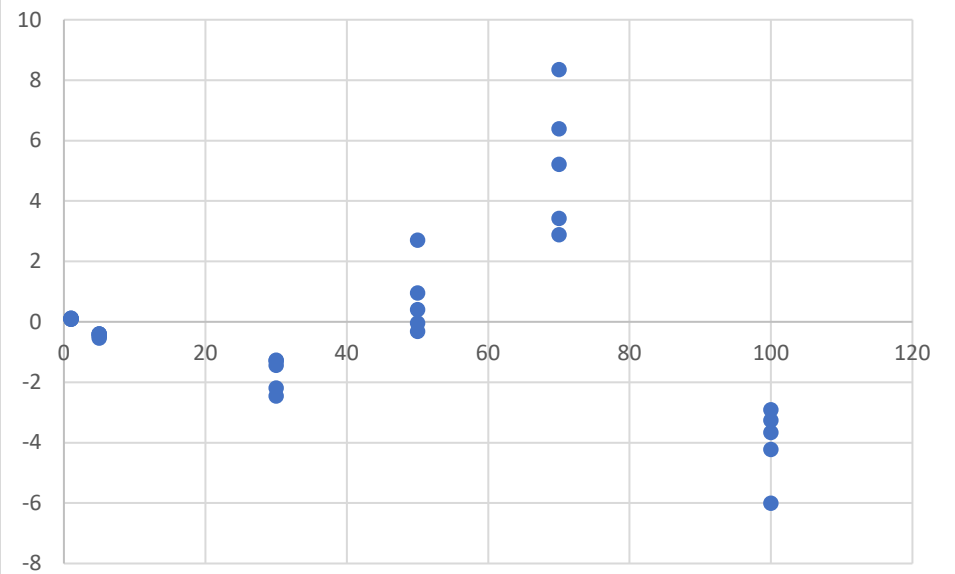
$\Delta 8$ -THC - Linear 1/x



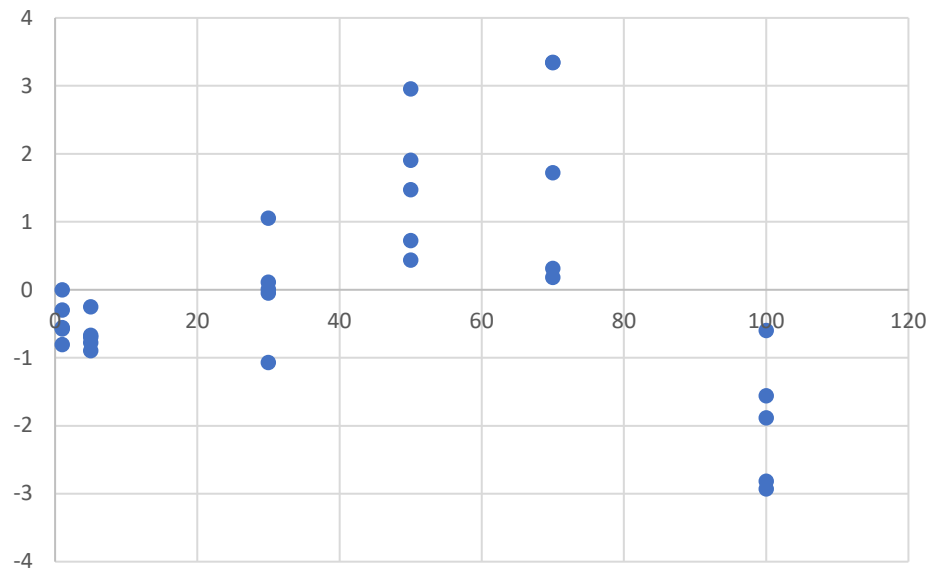
$\Delta 8$ -THC - Quadratic



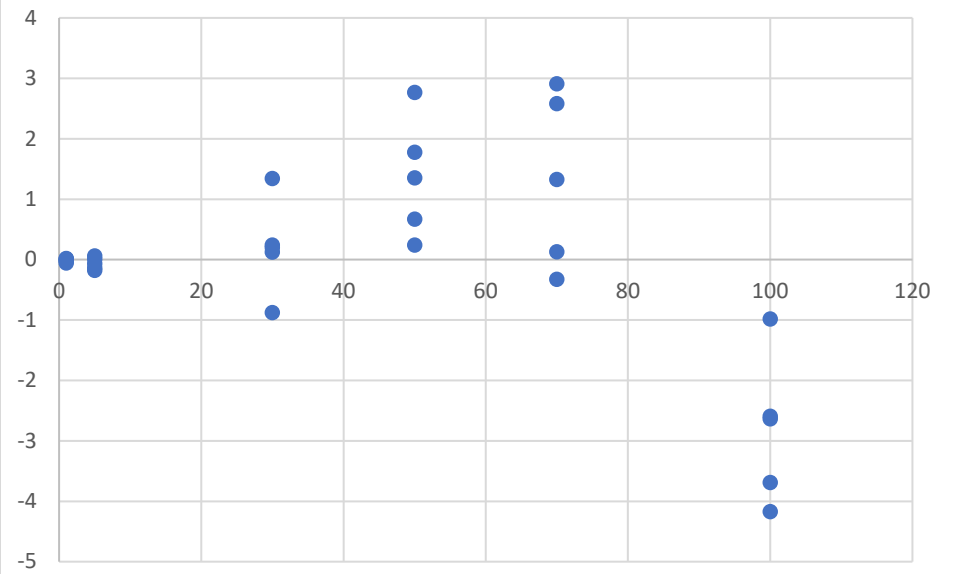
$\Delta 8$ -THC - Quadratic 1/x



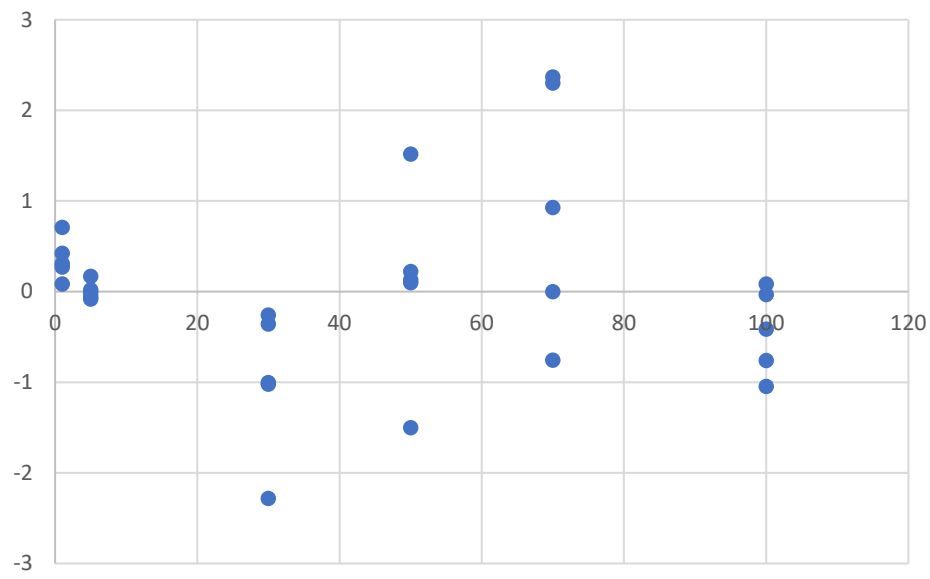
$\Delta 9$ -THC - Linear



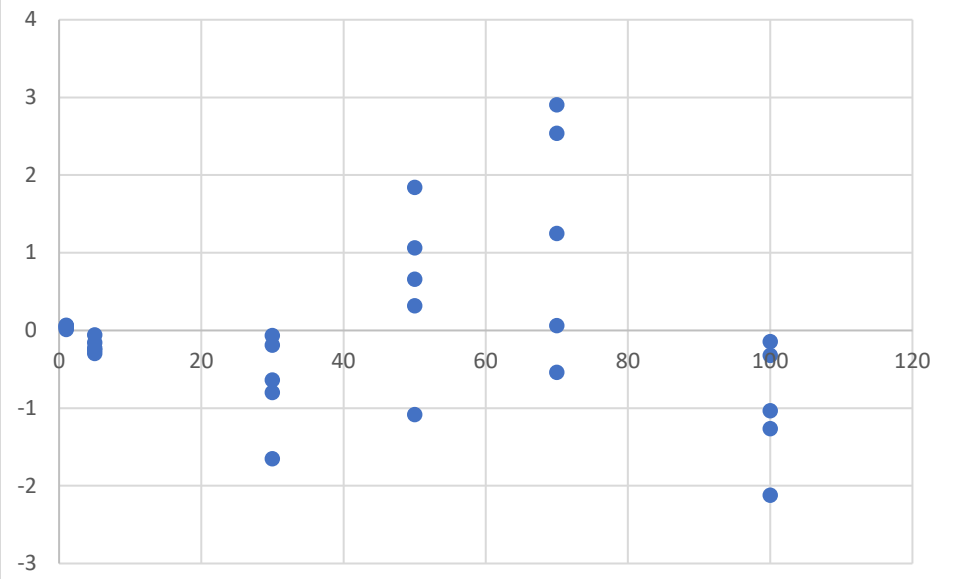
$\Delta 9$ -THC - Linear 1/x



$\Delta 9$ -THC - Quadratic



$\Delta 9$ -THC - Quadratic 1/x



BIAS AND PRECISION

Bias and precision were calculated for each panel analyte and summarized in the tables below.

THC-COOH

Batch 1

Sample	Target	Mean	%Bias	StdDev	%CV
High	80	78.05	-2.43	1.40	1.80
Low	8	7.52	-5.96	0.08	1.12
Medium	40	44.65	11.61	0.54	1.20
LOQ	5	4.77	-4.61	0.18	3.71

Batch 2

Sample	Target	Mean	%Bias	StdDev	%CV
High	80	76.36	-4.54	2.50	3.28
Low	8	7.83	-2.09	0.09	1.09
Medium	40	43.63	9.07	0.50	1.14
LOQ	5	4.83	-3.45	0.12	2.48

Batch 3

Sample	Target	Mean	%Bias	StdDev	%CV
High	80	74.32	-7.10	1.46	1.97
Low	8	7.88	-1.53	0.16	2.02
Medium	40	41.75	4.38	0.68	1.63
LOQ	5	4.90	-2.05	0.09	1.83

Batch 4

Sample	Target	Mean	%Bias	StdDev	%CV
High	80	70.55	-11.82	1.18	1.68
Low	8	7.52	-6.01	0.21	2.85
Medium	40	40.05	0.13	0.40	1.00
LOQ	5	5.01	0.17	0.19	3.80

Batch 5

Sample	Target	Mean	%Bias	StdDev	%CV
High	80	77.09	-3.63	0.33	0.42
Low	8	8.01	0.12	0.10	1.29
Medium	40	43.45	8.62	0.80	1.83
LOQ	5	5.07	1.43	0.10	2.04

Final Statistics

Sample	Target	Grand mean	Grand %Bias	StdDev	%CV
High	80	75.28	-5.90	3.08	4.09
Low	8	7.75	-3.09	0.24	3.12
Medium	40	42.71	6.76	1.73	4.04
LOQ	5	4.91	-1.70	0.18	3.67

THC-OH

Batch 1

Sample	Target	Mean	%Bias	StdDev	%CV
High	18	16.96	-5.78	0.16	0.92
Low	2	1.89	-5.35	0.01	0.55
Medium	10	10.36	3.62	0.12	1.19
LOQ	1	1.03	2.60	0.02	1.82

Batch 2

Sample	Target	Mean	%Bias	StdDev	%CV
High	18	17.49	-2.86	0.49	2.81
Low	2	1.99	-0.55	0.01	0.68
Medium	10	10.42	4.21	0.24	2.32
LOQ	1	1.06	5.73	0.04	3.44

Batch 3

Sample	Target	Mean	%Bias	StdDev	%CV
High	18	17.17	-4.63	0.27	1.60
Low	2	2.12	5.87	0.01	0.70
Medium	10	10.19	1.86	0.14	1.39
LOQ	1	1.11	10.97	0.02	2.14

Batch 4

Sample	Target	Mean	%Bias	StdDev	%CV
High	18	16.30	-9.47	0.57	3.48
Low	2	1.86	-7.08	0.06	3.43
Medium	10	9.68	-3.25	0.13	1.32
LOQ	1	0.97	-3.03	0.02	2.36

Batch 5

Sample	Target	Mean	%Bias	StdDev	%CV
High	18	17.13	-4.86	0.23	1.36
Low	2	1.99	-0.65	0.03	1.76
Medium	10	10.32	3.24	0.28	2.67
LOQ	1	1.02	2.33	0.01	0.64

Final Statistics

Sample	Target	Grand mean	Grand %Bias	StdDev	%CV
High	18	17.01	-5.52	0.55	3.21
Low	2	1.97	-1.55	0.10	4.90
Medium	10	10.19	1.94	0.33	3.26
LOQ	1	1.04	3.72	0.05	4.98

Δ8-THC

Batch 1

Sample	Target	Mean	%Bias	StdDev	%CV
High	80	98.17	22.71	0.24	0.25
Low	3	2.89	-3.78	0.06	2.05
Medium	40	42.65	6.63	0.70	1.64
LOQ	1	1.08	8.43	0.02	2.00

Batch 2

Sample	Target	Mean	%Bias	StdDev	%CV
High	80	91.33	14.17	2.69	2.94
Low	3	2.88	-3.86	0.07	2.28
Medium	40	41.25	3.13	1.02	2.46
LOQ	1	1.06	6.47	0.05	5.00

Batch 3

Sample	Target	Mean	%Bias	StdDev	%CV
High	80	92.89	16.11	2.32	2.49
Low	3	2.85	-5.12	0.07	2.50
Medium	40	40.07	0.17	0.84	2.11
LOQ	1	1.05	5.47	0.04	3.77

Batch 4

Sample	Target	Mean	%Bias	StdDev	%CV
High	80	81.28	1.60	1.91	2.35
Low	3	2.68	-10.70	0.09	3.24
Medium	40	37.27	-6.84	0.77	2.07
LOQ	1	1.04	4.20	0.03	2.53

Batch 5

Sample	Target	Mean	%Bias	StdDev	%CV
High	80	92.83	16.03	1.22	1.31
Low	3	2.84	-5.46	0.03	1.01
Medium	40	40.56	1.39	0.81	2.00
LOQ	1	1.08	8.43	0.01	1.17

Final Statistics

Sample	Target	Grand mean	Grand %Bias	StdDev	%CV
High	80	91.30	14.12	5.84	6.39
Low	3	2.83	-5.78	0.10	3.55
Medium	40	40.36	0.90	1.96	4.86
LOQ	1	1.07	6.60	0.04	3.54

Δ9-THC

Batch 1

Sample	Target	Mean	%Bias	StdDev	%CV
High	80	90.65	13.31	1.06	1.17
Low	3	2.98	-0.82	0.04	1.35
Medium	40	42.87	7.18	0.25	0.59
LOQ	1	1.06	5.77	0.07	6.36

Batch 2

Sample	Target	Mean	%Bias	StdDev	%CV
High	80	85.75	7.19	1.21	1.41
Low	3	2.93	-2.33	0.07	2.26
Medium	40	41.78	4.46	0.70	1.67
LOQ	1	1.03	3.40	0.03	3.25

Batch 3

Sample	Target	Mean	%Bias	StdDev	%CV
High	80	87.19	8.99	1.16	1.33
Low	3	3.14	4.54	0.10	3.29
Medium	40	40.96	2.39	0.59	1.44
LOQ	1	1.03	3.47	0.04	3.40

Batch 4

Sample	Target	Mean	%Bias	StdDev	%CV
High	80	76.77	-4.04	2.02	2.63
Low	3	2.83	-5.81	0.06	1.99
Medium	40	38.63	-3.42	0.31	0.80
LOQ	1	0.96	-4.47	0.03	3.55

Batch 5

Sample	Target	Mean	%Bias	StdDev	%CV
High	80	87.39	9.24	1.11	1.27
Low	3	2.98	-0.69	0.04	1.50
Medium	40	42.49	6.21	0.69	1.63
LOQ	1	1.00	-0.17	0.02	2.37

Final Statistics

Sample	Target	Grand mean	Grand %Bias	StdDev	%CV
High	80	85.55	6.94	4.87	5.69
Low	3	2.97	-1.02	0.12	4.04
Medium	40	41.35	3.36	1.60	3.87
LOQ	1	1.02	1.60	0.05	5.39

THC-COOH-D3

	Batch 1	Batch 2	Batch 3	Batch 4	Batch 5
	3.235E+06	2.820E+06	3.327E+06	2.496E+06	2.429E+06
	3.331E+06	2.841E+06	3.548E+06	2.399E+06	2.974E+06
	3.273E+06	9.723E+05	3.403E+06	2.546E+06	3.089E+06
	3.045E+06	8.144E+05	3.281E+06	2.419E+06	3.017E+06
	1.863E+06	1.747E+06	3.256E+06	2.341E+06	3.054E+06
	3.010E+06	3.337E+05	3.210E+06	2.201E+06	2.936E+06
	3.206E+06	2.923E+06	3.444E+06	2.613E+06	2.939E+06
	3.254E+06	2.809E+06	3.453E+06	2.666E+06	3.062E+06
	3.331E+06	2.925E+06	3.487E+06	2.633E+06	3.230E+06
	3.173E+06	2.920E+06	3.348E+06	2.700E+06	2.939E+06
	3.231E+06	2.755E+06	3.378E+06	2.710E+06	2.782E+06
	3.168E+06	2.803E+06	3.261E+06	2.669E+06	2.796E+06
	2.996E+06	1.956E+06	3.225E+06	2.665E+06	2.803E+06
	3.102E+06	2.151E+06	3.217E+06	2.643E+06	2.919E+06
	3.122E+06	8.869E+05	3.489E+06	2.846E+06	3.024E+06
	3.365E+06	2.957E+06	3.516E+06	2.818E+06	3.189E+06
	3.198E+06	3.069E+06	4.138E+06	2.836E+06	2.833E+06
	3.289E+06	1.422E+06	3.430E+06	2.867E+06	3.196E+06
	3.226E+06	3.249E+06	3.361E+06	2.994E+06	3.254E+06
mean	3.127E+06	2.229E+06	3.409E+06	2.635E+06	2.972E+06
std dev	3.151E+05	8.981E+05	2.005E+05	1.945E+05	1.909E+05
%CV	10	40	6	7	6
-5 % average	2.971E+06	2.118E+06	3.239E+06	2.503E+06	2.823E+06
5 % average	3.284E+06	2.341E+06	3.580E+06	2.767E+06	3.120E+06
-10 % average	2.815E+06	2.006E+06	3.068E+06	2.371E+06	2.675E+06
10 % average	3.440E+06	2.452E+06	3.750E+06	2.898E+06	3.269E+06
-15 % average	2.658E+06	1.895E+06	2.898E+06	2.240E+06	2.526E+06
15 % average	3.596E+06	2.564E+06	3.920E+06	3.030E+06	3.418E+06
-20 % average	2.502E+06	1.783E+06	2.727E+06	2.108E+06	2.377E+06
20 % average	3.753E+06	2.675E+06	4.091E+06	3.162E+06	3.566E+06

THC-OH-D3

	Batch 1	Batch 2	Batch 3	Batch 4	Batch 5
	2.024E+05	2.017E+05	2.125E+05	1.985E+05	1.488E+05
	2.039E+05	2.137E+05	2.236E+05	1.898E+05	1.853E+05
	1.960E+05	6.020E+04	2.181E+05	1.834E+05	1.957E+05
	1.937E+05	5.076E+04	2.208E+05	1.954E+05	1.923E+05
	1.249E+05	1.220E+05	2.167E+05	1.943E+05	2.050E+05
	1.924E+05	1.932E+04	2.168E+05	1.797E+05	2.011E+05
	1.896E+05	2.045E+05	2.142E+05	2.014E+05	1.903E+05
	1.914E+05	1.985E+05	2.205E+05	2.121E+05	2.018E+05
	2.002E+05	2.073E+05	2.219E+05	2.096E+05	1.964E+05
	2.004E+05	2.064E+05	2.212E+05	2.170E+05	1.912E+05
	2.124E+05	2.073E+05	2.199E+05	2.165E+05	1.864E+05
	2.033E+05	2.036E+05	2.076E+05	2.112E+05	1.860E+05
	2.022E+05	1.363E+05	2.105E+05	2.131E+05	1.945E+05
	2.095E+05	1.560E+05	2.170E+05	2.107E+05	1.899E+05
	2.053E+05	5.086E+04	2.318E+05	2.360E+05	2.029E+05
	2.014E+05	2.189E+05	2.246E+05	2.136E+05	1.979E+05
	1.931E+05	2.235E+05	2.659E+05	2.225E+05	1.756E+05
	2.053E+05	8.969E+04	2.210E+05	2.251E+05	1.935E+05
	1.958E+05	2.293E+05	2.226E+05	2.271E+05	1.972E+05
mean	1.960E+05	1.579E+05	2.214E+05	2.083E+05	1.911E+05
std dev	1.781E+04	6.859E+04	1.175E+04	1.472E+04	1.216E+04
%CV	9	43	5	7	6
-5 % average	1.862E+05	1.500E+05	2.104E+05	1.979E+05	1.816E+05
5 % average	2.058E+05	1.658E+05	2.325E+05	2.187E+05	2.007E+05
-10 % average	1.764E+05	1.421E+05	1.993E+05	1.874E+05	1.720E+05
10 % average	2.156E+05	1.737E+05	2.436E+05	2.291E+05	2.103E+05
-15 % average	1.666E+05	1.342E+05	1.882E+05	1.770E+05	1.625E+05
15 % average	2.254E+05	1.816E+05	2.546E+05	2.395E+05	2.198E+05
-20 % average	1.568E+05	1.263E+05	1.771E+05	1.666E+05	1.529E+05
20 % average	2.351E+05	1.895E+05	2.657E+05	2.499E+05	2.294E+05

Δ8-THC-D3

	Batch 1	Batch 2	Batch 3	Batch 4	Batch 5
	1.330E+06	2.087E+06	1.293E+06	2.452E+06	9.915E+05
	1.362E+06	2.105E+06	1.278E+06	2.193E+06	1.270E+06
	1.288E+06	6.953E+05	1.242E+06	2.204E+06	1.203E+06
	1.249E+06	6.069E+05	1.291E+06	2.235E+06	1.212E+06
	8.873E+05	1.313E+06	1.249E+06	2.294E+06	1.124E+06
	1.285E+06	2.219E+05	1.282E+06	1.924E+06	1.203E+06
	1.255E+06	2.234E+06	1.205E+06	2.340E+06	1.187E+06
	1.226E+06	2.181E+06	1.200E+06	2.366E+06	1.287E+06
	1.244E+06	2.251E+06	1.207E+06	2.342E+06	1.121E+06
	1.273E+06	2.153E+06	1.218E+06	2.316E+06	1.203E+06
	1.277E+06	2.104E+06	1.232E+06	2.399E+06	1.115E+06
	1.255E+06	2.017E+06	1.152E+06	2.283E+06	1.104E+06
	1.173E+06	1.392E+06	1.185E+06	2.237E+06	1.206E+06
	1.254E+06	1.618E+06	1.182E+06	2.166E+06	1.226E+06
	1.255E+06	5.935E+05	1.287E+06	2.378E+06	1.238E+06
	1.340E+06	2.311E+06	1.247E+06	2.383E+06	1.268E+06
	1.194E+06	2.219E+06	1.378E+06	2.325E+06	1.069E+06
	1.232E+06	9.706E+05	1.205E+06	2.344E+06	1.225E+06
	1.108E+06	2.413E+06	1.164E+06	2.445E+06	1.146E+06
mean	1.236E+06	1.657E+06	1.237E+06	2.296E+06	1.179E+06
std dev	9.978E+04	6.927E+05	5.399E+04	1.182E+05	7.389E+04
%CV	8	42	4	5	6
-5 % average	1.174E+06	1.574E+06	1.175E+06	2.181E+06	1.120E+06
5 % average	1.298E+06	1.740E+06	1.299E+06	2.411E+06	1.238E+06
-10 % average	1.113E+06	1.491E+06	1.113E+06	2.066E+06	1.061E+06
10 % average	1.360E+06	1.823E+06	1.360E+06	2.526E+06	1.297E+06
-15 % average	1.051E+06	1.409E+06	1.051E+06	1.952E+06	1.002E+06
15 % average	1.422E+06	1.906E+06	1.422E+06	2.641E+06	1.356E+06
-20 % average	9.889E+05	1.326E+06	9.893E+05	1.837E+06	9.431E+05
20 % average	1.483E+06	1.989E+06	1.484E+06	2.755E+06	1.415E+06

Δ9-THC-D3

	Batch 1	Batch 2	Batch 3	Batch 4	Batch 5
	1.310E+06	2.218E+06	1.289E+06	2.727E+06	1.021E+06
	1.295E+06	2.207E+06	1.302E+06	2.493E+06	1.273E+06
	1.263E+06	7.652E+05	1.247E+06	2.500E+06	1.239E+06
	1.254E+06	6.560E+05	1.285E+06	2.542E+06	1.199E+06
	8.798E+05	1.401E+06	1.290E+06	2.520E+06	1.127E+06
	1.278E+06	2.443E+05	1.266E+06	2.117E+06	1.196E+06
	1.217E+06	2.347E+06	1.194E+06	2.584E+06	1.192E+06
	1.218E+06	2.297E+06	1.202E+06	2.653E+06	1.275E+06
	1.227E+06	2.353E+06	1.212E+06	2.614E+06	1.145E+06
	1.249E+06	2.226E+06	1.239E+06	2.595E+06	1.202E+06
	1.287E+06	2.201E+06	1.248E+06	2.664E+06	1.110E+06
	1.258E+06	2.114E+06	1.154E+06	2.534E+06	1.117E+06
	1.170E+06	1.475E+06	1.177E+06	2.557E+06	1.197E+06
	1.222E+06	1.721E+06	1.189E+06	2.419E+06	1.197E+06
	1.251E+06	6.517E+05	1.279E+06	2.684E+06	1.221E+06
	1.289E+06	2.336E+06	1.248E+06	2.686E+06	1.258E+06
	1.182E+06	2.312E+06	1.348E+06	2.620E+06	1.091E+06
	1.232E+06	1.043E+06	1.205E+06	2.624E+06	1.221E+06
	1.095E+06	2.466E+06	1.189E+06	2.777E+06	1.154E+06
mean	1.220E+06	1.739E+06	1.240E+06	2.574E+06	1.181E+06
std dev	9.406E+04	7.077E+05	4.971E+04	1.379E+05	6.456E+04
%CV	8	41	4	5	5
-5 % average	1.159E+06	1.652E+06	1.178E+06	2.446E+06	1.122E+06
5 % average	1.281E+06	1.826E+06	1.302E+06	2.703E+06	1.240E+06
-10 % average	1.098E+06	1.565E+06	1.116E+06	2.317E+06	1.063E+06
10 % average	1.342E+06	1.913E+06	1.364E+06	2.832E+06	1.299E+06
-15 % average	1.037E+06	1.478E+06	1.054E+06	2.188E+06	1.004E+06
15 % average	1.403E+06	1.999E+06	1.426E+06	2.960E+06	1.358E+06
-20 % average	9.759E+05	1.391E+06	9.921E+05	2.059E+06	9.446E+05
20 % average	1.464E+06	2.086E+06	1.488E+06	3.089E+06	1.417E+06

Cannabinoid Lot Log	
Date	09-14-22
Analyst	JLG
Checked tubes	N/A
Sample preparation	
Sample Pipette	007
Blank Blood	FU
Standards	09-14-22 JLG
Controls	09-14-22 JLG
Standards/Controls Pipette	064
Internal Standard	09-14-22 SB
Internal Standard Pipette	103
0.1 % formic acid in H ₂ O	08-29-22 SB
Extraction	
SLE Cartridge	22061206CA
MTBE	L322A-2
B: 0.1% formic acid in ACN	08-29-22 SB
A: 0.1 % formic acid in H ₂ O	08-15-22 JA
Instrumentation	
A: 0.1 % formic acid in H ₂ O	09-01-22 HK
B: 0.1% formic acid in ACN	09-12-22 SB
Column Serial Number	USC6C17438
Instrument	21-1
Sequence Check:	
Notes: Bias + Precision	

Cannabinoid Lot Log	
Date	091422
Analyst	SB
Checked tubes	N/A
Sample preparation	
Sample Pipette	007
Blank Blood	FR3
Standards	091422 JLG
Controls	091422 JLG
Standards/Controls Pipette	064
Internal Standard	091422 SB
Internal Standard Pipette	103
0.1 % formic acid in H ₂ O	082922 SB
Extraction	
SLE Cartridge	820-2-06
MTBE	L322A-2
B: 0.1% formic acid in ACN	082922 SB
A: 0.1 % formic acid in H ₂ O	081522 JA
Instrumentation	
A: 0.1 % formic acid in H ₂ O	090122 HK
B: 0.1% formic acid in ACN	091222 SB
Column Serial Number	21-1
Instrument	USCGC17438
Sequence Check:	
Notes: Bias/Precision Matrix Effect FR	

Cannabinoid Lot Log	
Date	9-14-22
Analyst	TSF
Checked tubes	
Sample preparation	
Sample Pipette	007
Blank Blood	FT
Standards	9-14-22 JG
Controls	9-14-22 JG
Standards/Controls Pipette	064
Internal Standard	9-14-22 SB
Internal Standard Pipette	103
0.1 % formic acid in H ₂ O	8-29-22 SB
Extraction	
SLE Cartridge	820-2-06
MTBE	L322A-2
B: 0.1% formic acid in ACN	8-29-22 SB
A: 0.1 % formic acid in H ₂ O	8-15-22 JA
Instrumentation	
A: 0.1 % formic acid in H ₂ O	9-1-22 HK
B: 0.1% formic acid in ACN	9-12-22 SB
Column Serial Number	USCGC17438
Instrument	21-1
Sequence Check:	
Notes: Bias + Precision + Mat Neg for FT	

Cannabinoid Lot Log	
Date	9-15-22
Analyst	SMC
Checked tubes	Bias + Precision
Sample preparation	
Sample Pipette	007
Blank Blood	FW1
Standards	9-14-22 JLG
Controls	9-14-22 JLG
Standards/Controls Pipette	064
Internal Standard	9-14-22 SB
Internal Standard Pipette	103
0.1 % formic acid in H ₂ O	8-29-22 SB
Extraction	
SLE Cartridge	220612CGCA
MTBE	L322A-2+3
B: 0.1% formic acid in ACN	8-29-22 SB
A: 0.1 % formic acid in H ₂ O	8-15-22 JA
Instrumentation	
A: 0.1 % formic acid in H ₂ O	9-1-22 HK
B: 0.1% formic acid in ACN	9-12-22 SB
Column Serial Number	USCGC17438
Instrument	21-1
Sequence Check:	
Notes: Bias + Precision	

Cannabinoid Lot Log	
Date	9-15-22
Analyst	LA
Checked tubes	
Sample preparation	
Sample Pipette	7
Blank Blood	FX1
Standards	9-14-22 JLG
Controls	9-14-22 JLG
Standards/Controls Pipette	64
Internal Standard	9-14-22 SB
Internal Standard Pipette	103
0.1 % formic acid in H ₂ O	8-29-22 SB
Extraction	
SLE Cartridge	820-2-06
MTBE	L322A-3
B: 0.1% formic acid in ACN	8-29-22 SB
A: 0.1 % formic acid in H ₂ O	8-15-22 JA
Instrumentation	
A: 0.1 % formic acid in H ₂ O	9-1-22 HK
B: 0.1% formic acid in ACN	9-12-22 SB
Column Serial Number	USCGC 17438
Instrument	21-1
Sequence Check:	
Notes: BIAS AND PRECISION	



Toxicology Unit
Calibration/Control Report
Quantitative Analysis

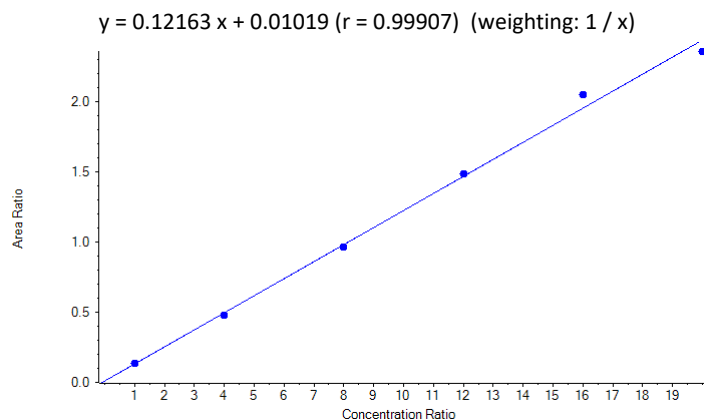
Batch Summary

Acquisition Method	THC.dam
Project	THC
Result Table	20220914JLG

Result Table List

Sample Name	Sample Type	Position	Acquisition Time	Sample Comment
Standard 1	Standard	55	09/15/2022 02:28:44	
Standard 2	Standard	56	09/15/2022 02:42:49	
Standard 3	Standard	57	09/15/2022 02:56:54	
Standard 4	Standard	58	09/15/2022 03:11:00	
Standard 5	Standard	59	09/15/2022 03:25:05	
Standard 6	Standard	60	09/15/2022 03:39:11	
Low A	Quality Control	61	09/15/2022 03:53:16	
Low B	Quality Control	62	09/15/2022 04:07:21	
Low C	Quality Control	63	09/15/2022 04:21:24	
Medium A	Quality Control	64	09/15/2022 04:35:29	
Medium B	Quality Control	65	09/15/2022 04:49:35	
Medium C	Quality Control	66	09/15/2022 05:03:37	
High A	Quality Control	67	09/15/2022 05:17:42	
High B	Quality Control	68	09/15/2022 05:31:48	
High C	Quality Control	69	09/15/2022 05:45:53	
Negative	Quality Control	70	09/15/2022 05:59:59	
Standard 1 A	Quality Control	71	09/15/2022 06:14:04	
Standard 1 B	Quality Control	72	09/15/2022 06:28:09	
Standard 1 C	Quality Control	73	09/15/2022 06:42:15	

Calibration Summary: THC-OH



Analyte Transition Mass	
Internal Standard	THC-OH-D3
I.S. Transition Mass	334.1 / 196.1
THC-OH 1	331.1 / 193.1
THC-OH 2	331.1 / 105.1
Relative Retention time: Expected (Acceptance Range)	
THC-OH 1	1.007 (0.982-1.032)
THC-OH 2	1.007 (0.982-1.032)
Ion Ratio: Expected (Acceptance Range)	
THC-OH 2	0.677 (0.542-0.812)
THC-OH comment	

Quantitative Summary: THC-OH

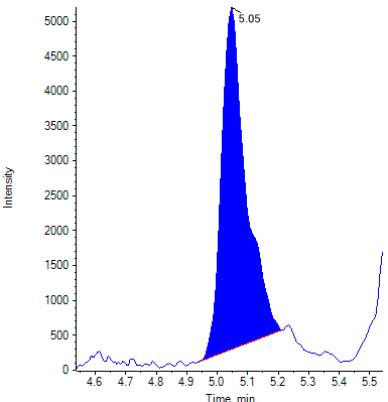
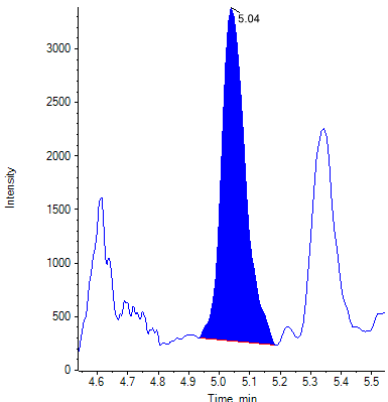
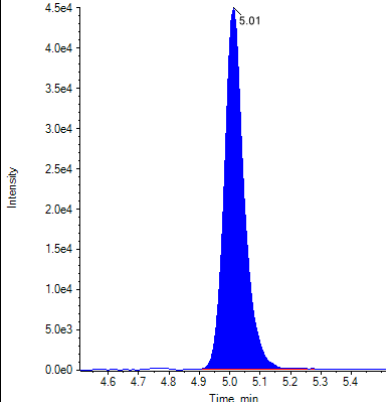
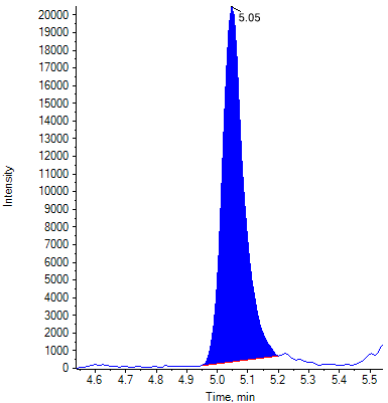
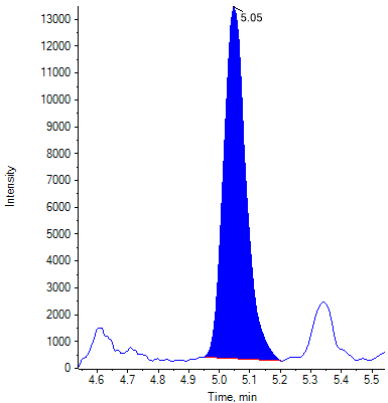
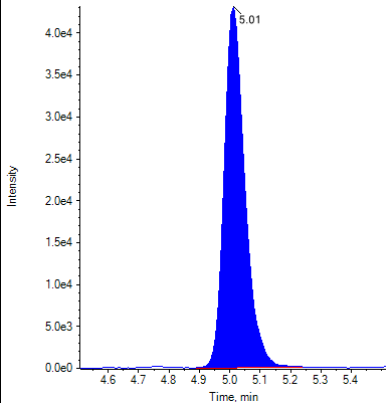
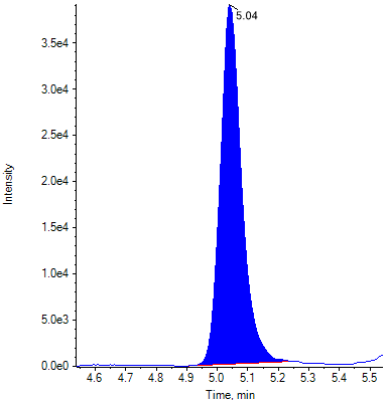
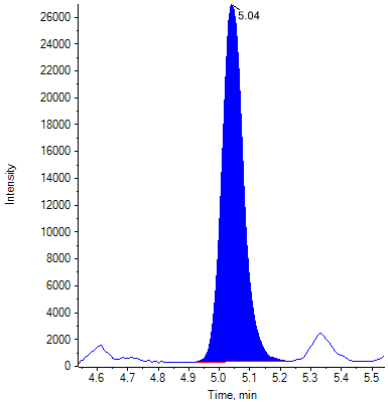
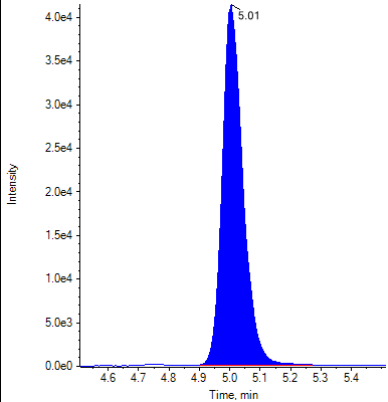
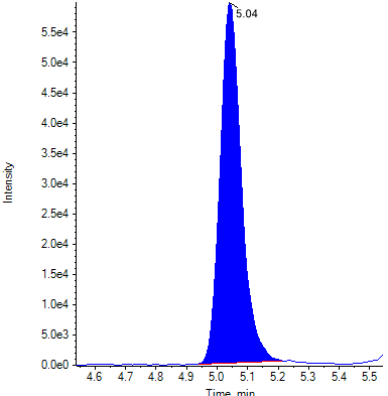
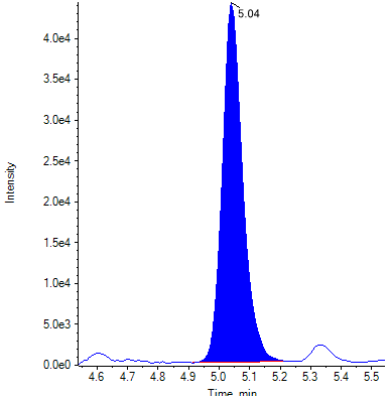
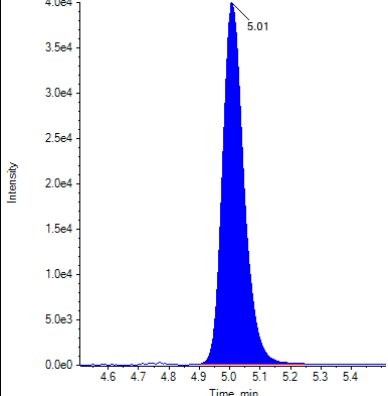
Sample Name	Area Ratio	Actual Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
Standard 1	0.1347	1.00	1.023	102.33
Standard 2	0.4811	4.00	3.871	96.78
Standard 3	0.9665	8.00	7.862	98.27
Standard 4	1.4844	12.00	12.120	101.00
Standard 5	2.0535	16.00	16.799	104.99
Standard 6	2.3607	20.00	19.324	96.62
Low A	0.2421	2.00	1.907	95.35
Low B	0.2401	2.00	1.890	94.51
Low C	0.2391	2.00	1.882	94.09
Medium A	1.2610	10.00	10.283	102.83
Medium B	1.2591	10.00	10.268	102.68
Medium C	1.2918	10.00	10.536	105.36
High A	2.0815	18.00	17.029	94.61
High B	2.0467	18.00	16.743	93.02
High C	2.0907	18.00	17.105	95.03
Negative	N/A	0.00	N/A	N/A
Standard 1 A	0.1325	1.00	1.006	100.56
Standard 1 B	0.1344	1.00	1.021	102.15
Standard 1 C	0.1380	1.00	1.051	105.10

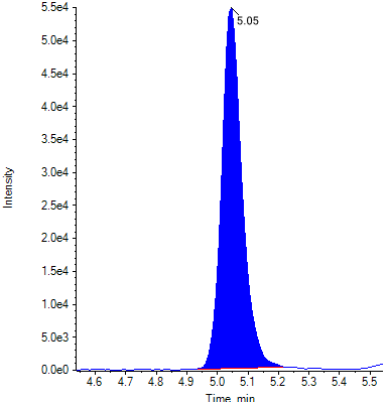
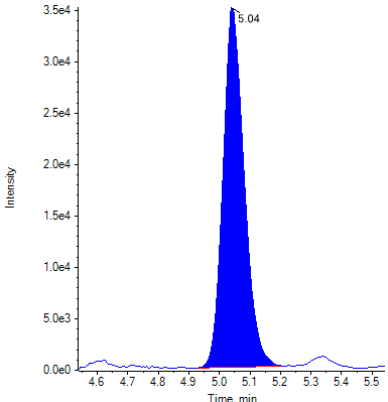
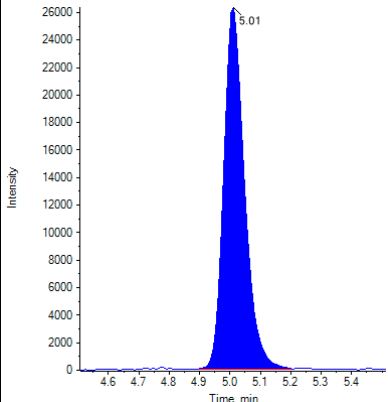
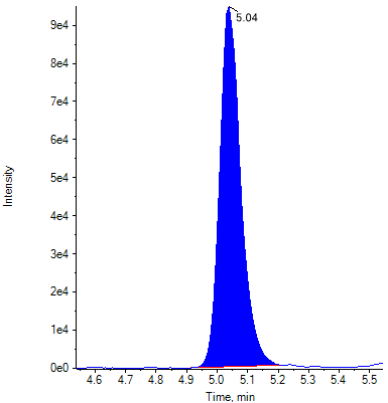
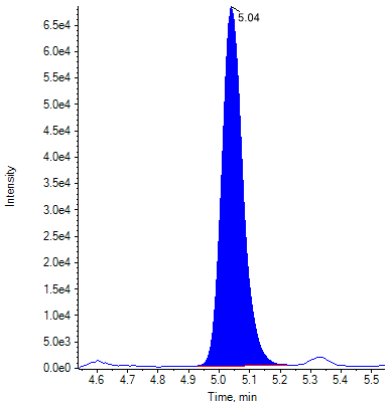
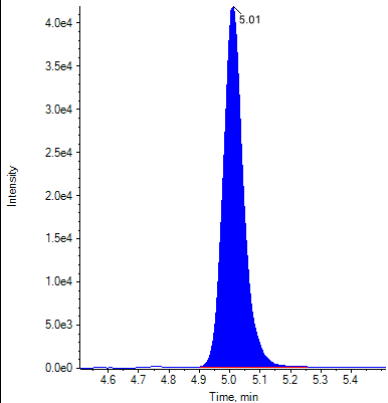
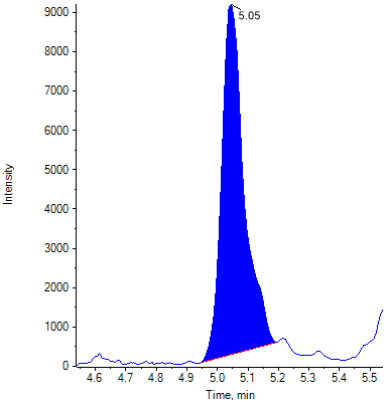
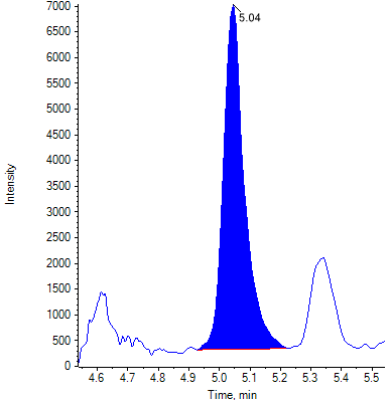
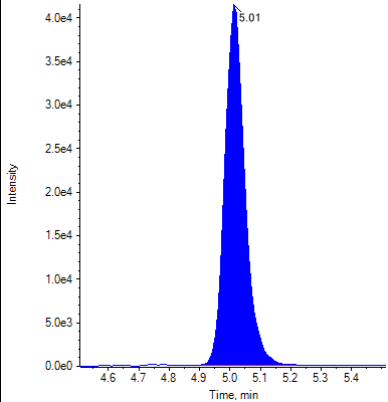
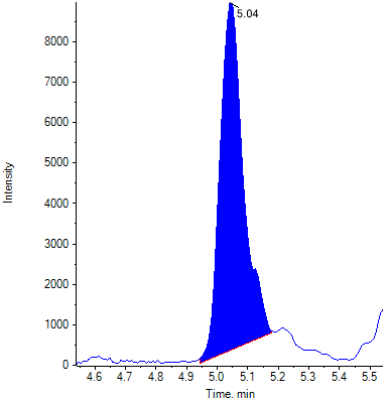
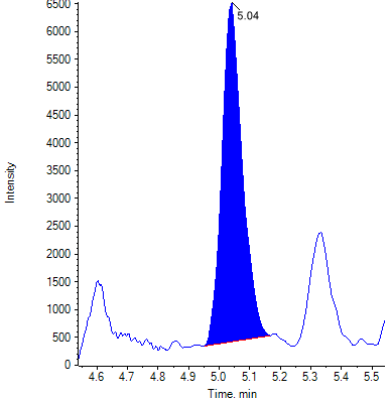
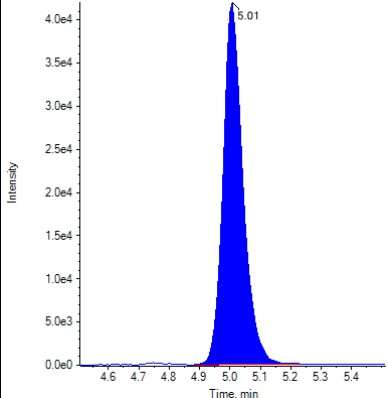
Identification Summary: THC-OH

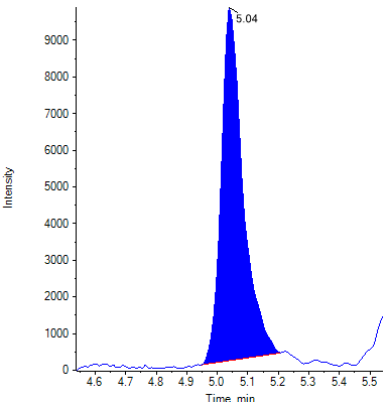
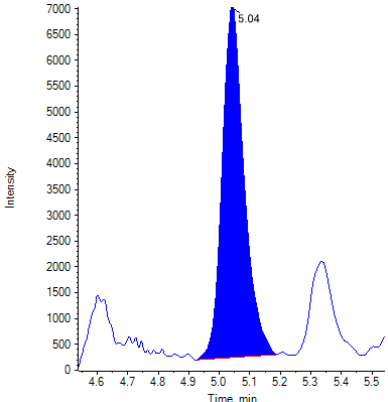
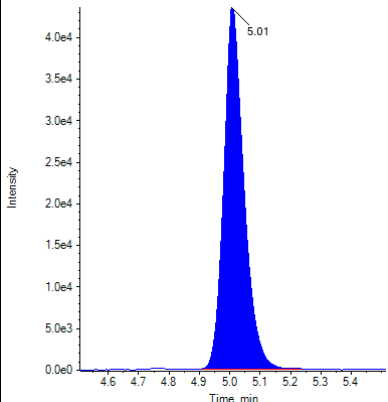
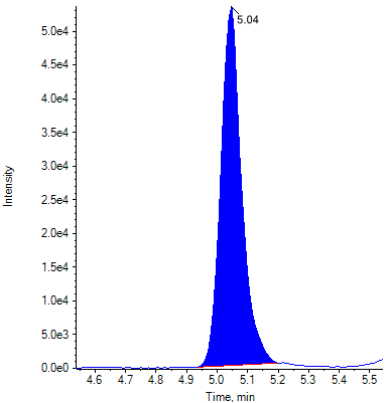
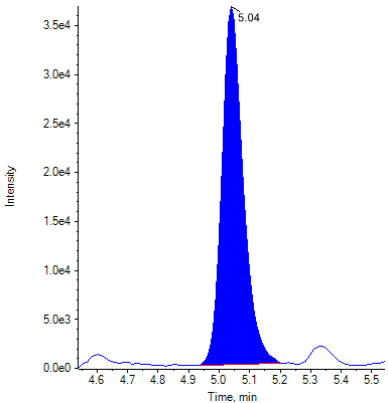
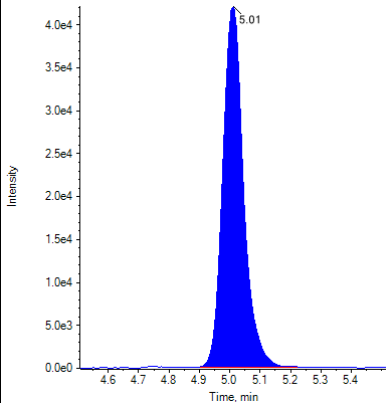
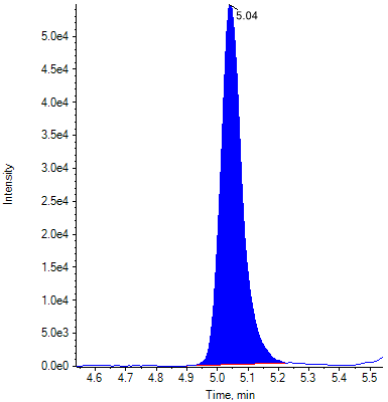
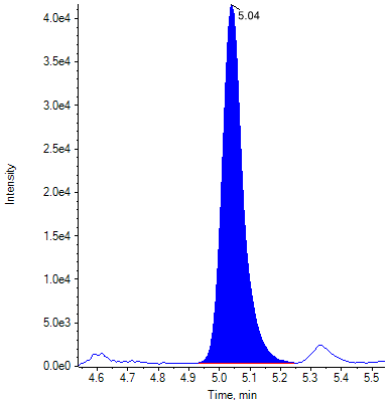
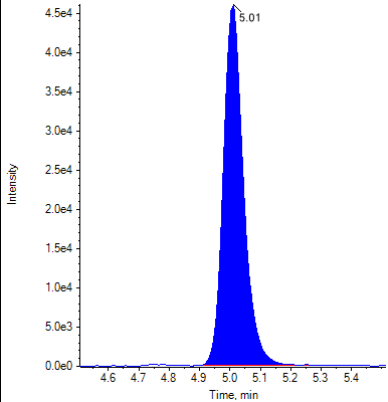
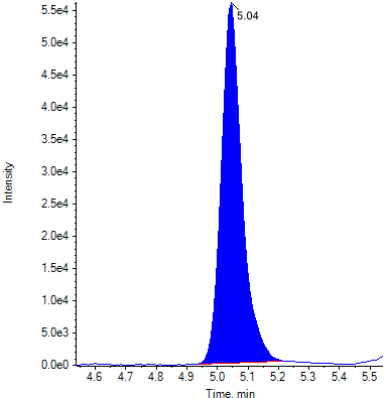
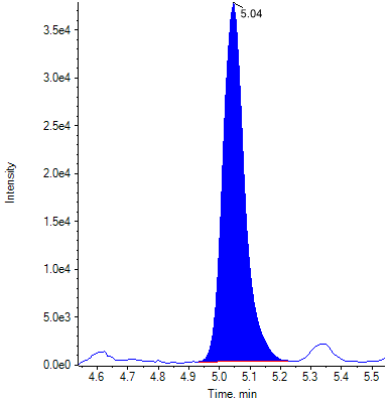
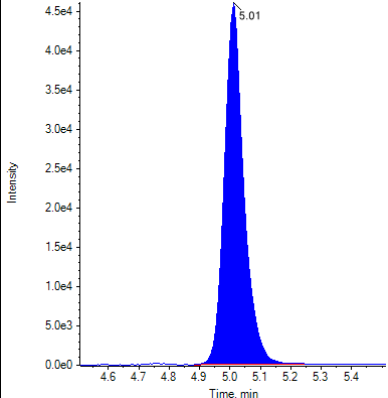
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 1	THC-OH 1	1.007 (Pass)	0.614 (Pass)
	THC-OH 2	1.006 (Pass)	
Standard 2	THC-OH 1	1.007 (Pass)	0.675 (Pass)
	THC-OH 2	1.007 (Pass)	

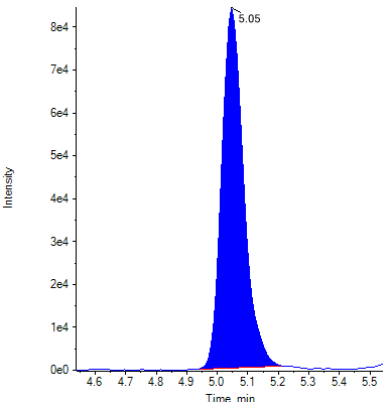
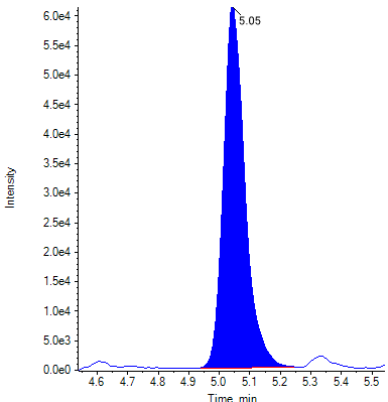
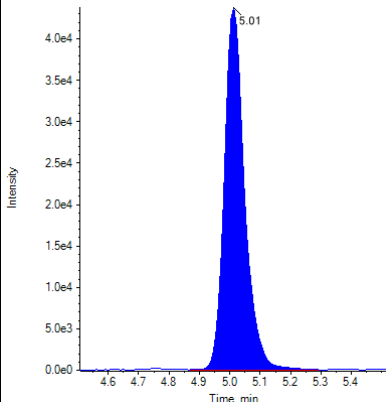
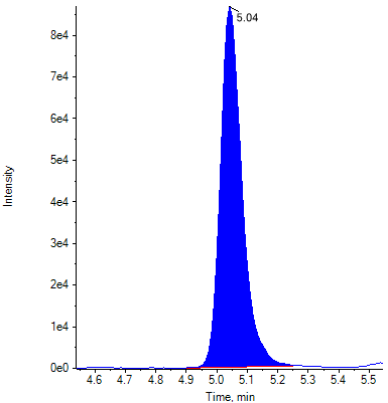
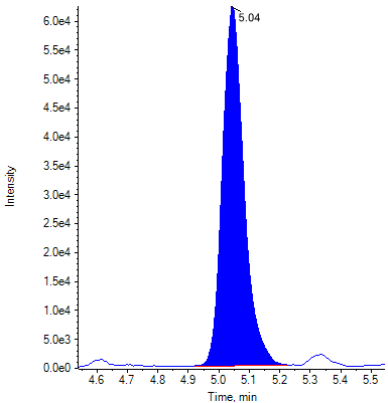
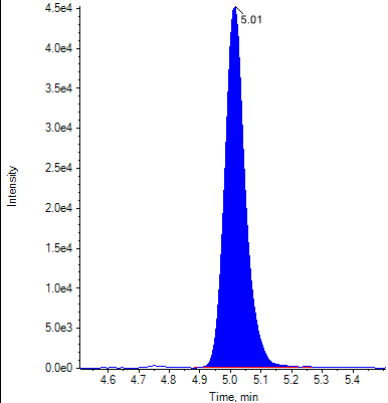
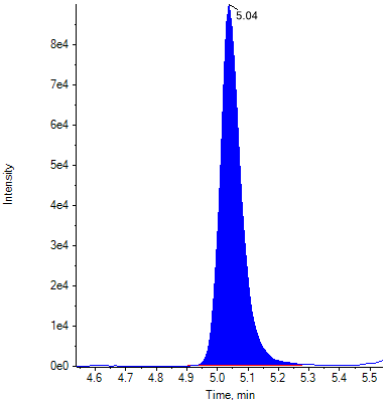
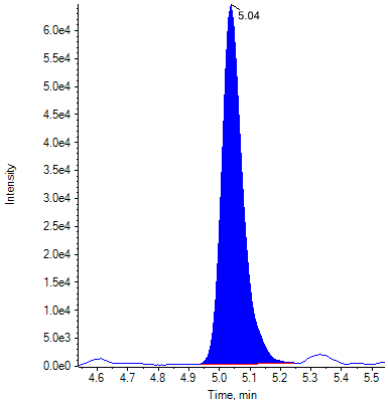
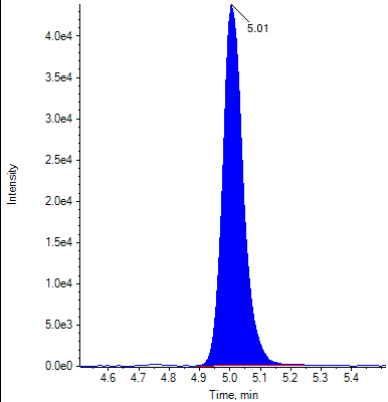
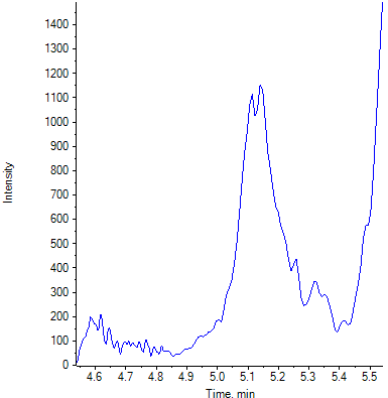
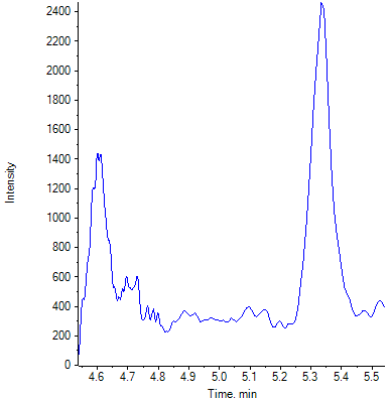
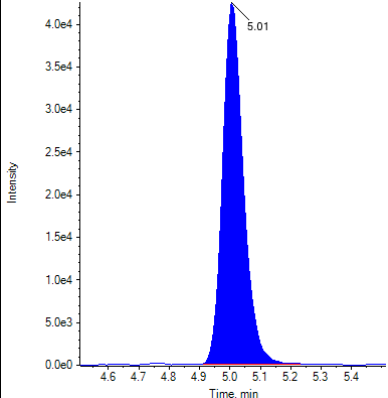
Identification Summary: THC-OH			
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 3	THC-OH 1	1.007 (Pass)	0.691 (Pass)
	THC-OH 2	1.007 (Pass)	
Standard 4	THC-OH 1	1.007 (Pass)	0.710 (Pass)
	THC-OH 2	1.007 (Pass)	
Standard 5	THC-OH 1	1.007 (Pass)	0.657 (Pass)
	THC-OH 2	1.007 (Pass)	
Standard 6	THC-OH 1	1.006 (Pass)	0.716 (Pass)
	THC-OH 2	1.006 (Pass)	
Low A	THC-OH 1	1.006 (Pass)	0.700 (Pass)
	THC-OH 2	1.006 (Pass)	
Low B	THC-OH 1	1.007 (Pass)	0.615 (Pass)
	THC-OH 2	1.006 (Pass)	
Low C	THC-OH 1	1.007 (Pass)	0.711 (Pass)
	THC-OH 2	1.006 (Pass)	
Medium A	THC-OH 1	1.007 (Pass)	0.702 (Pass)
	THC-OH 2	1.006 (Pass)	
Medium B	THC-OH 1	1.007 (Pass)	0.734 (Pass)
	THC-OH 2	1.006 (Pass)	
Medium C	THC-OH 1	1.007 (Pass)	0.699 (Pass)
	THC-OH 2	1.007 (Pass)	
High A	THC-OH 1	1.007 (Pass)	0.714 (Pass)
	THC-OH 2	1.007 (Pass)	
High B	THC-OH 1	1.006 (Pass)	0.712 (Pass)
	THC-OH 2	1.006 (Pass)	
High C	THC-OH 1	1.006 (Pass)	0.712 (Pass)
	THC-OH 2	1.006 (Pass)	
Negative	THC-OH 1	N/A ()	N/A ()
	THC-OH 2	N/A ()	
Standard 1 A	THC-OH 1	1.008 (Pass)	0.670 (Pass)
	THC-OH 2	1.007 (Pass)	
Standard 1 B	THC-OH 1	1.006 (Pass)	0.640 (Pass)
	THC-OH 2	1.006 (Pass)	
Standard 1 C	THC-OH 1	1.007 (Pass)	0.674 (Pass)
	THC-OH 2	1.007 (Pass)	

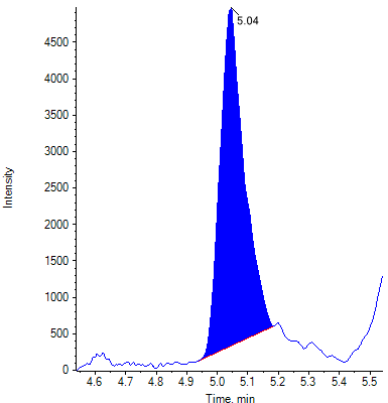
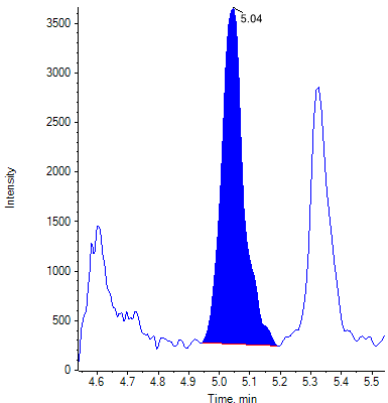
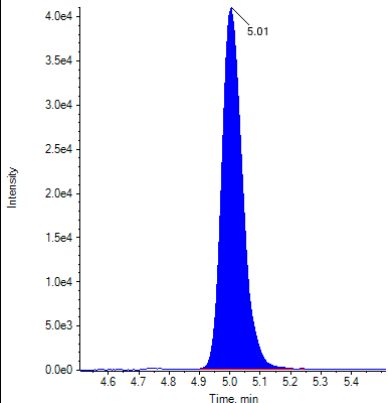
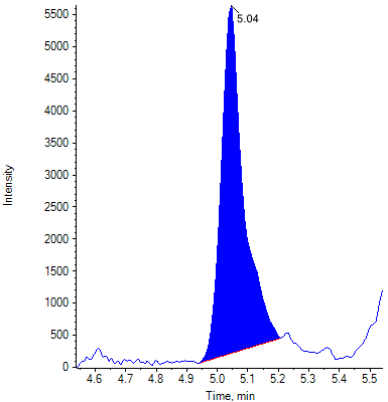
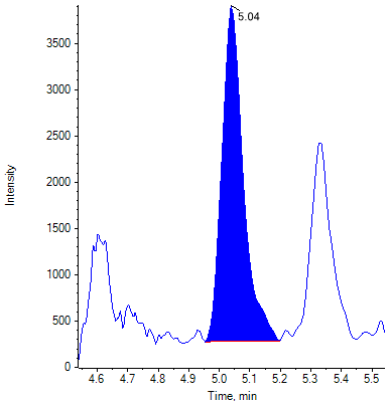
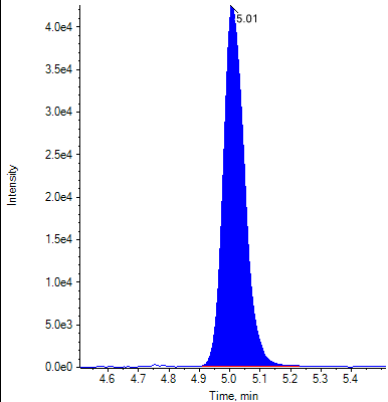
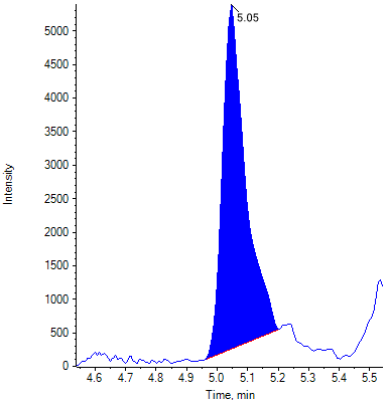
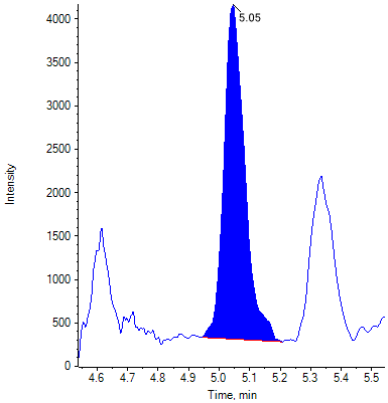
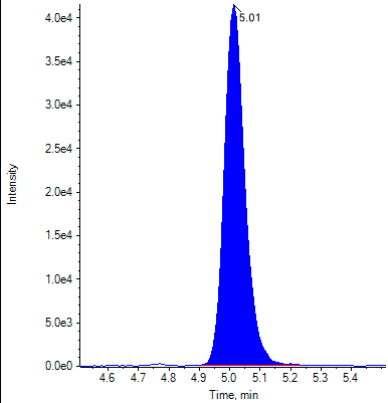
Peak Review			
Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3

Peak Review			
Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3
Standard 1			
Standard 2			
Standard 3			
Standard 4			

Peak Review			
Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3
Standard 5			
Standard 6			
Low A			
Low B			

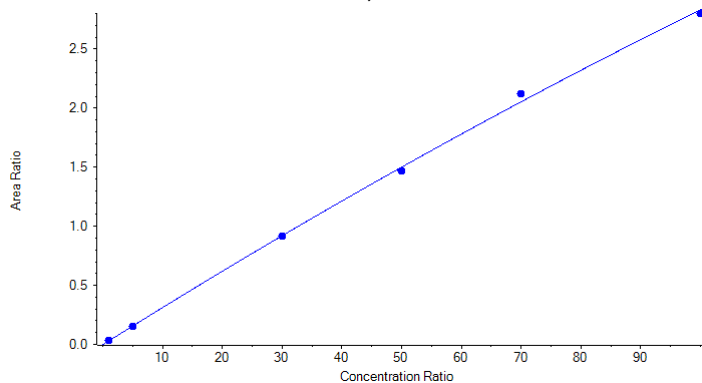
Peak Review			
Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3
Low C			
Medium A			
Medium B			
Medium C			

Peak Review			
Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3
High A			
High B			
High C			
Negative			

Peak Review			
Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3
Standard 1 A			
Standard 1 B			
Standard 1 C			

Calibration Summary: Δ9-THC

$$y = -3.42267e-5 x^2 + 0.03178 x - 0.00275 \quad (r = 0.99974) \quad (\text{weighting: } 1/x)$$

**Analyte Transition Mass**

Internal Standard	Δ9-THC-D3
I.S. Transition Mass	318.1 / 123.0
Δ9-THC 1	315.1 / 193.1
Δ9-THC 2	315.1 / 123.0

Relative Retention time: Expected (Acceptance Range)

Δ9-THC 1	1.004 (0.979-1.029)
Δ9-THC 2	1.004 (0.979-1.029)

Ion Ratio: Expected (Acceptance Range)

Δ9-THC 2	0.706 (0.565-0.847)
Δ9-THC comment	

Quantitative Summary: Δ9-THC

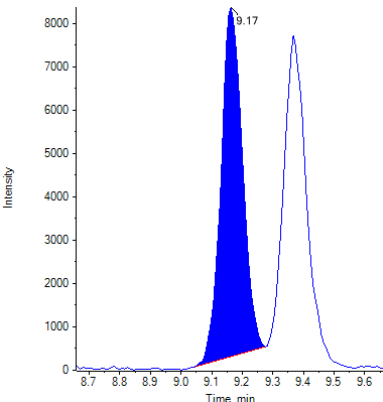
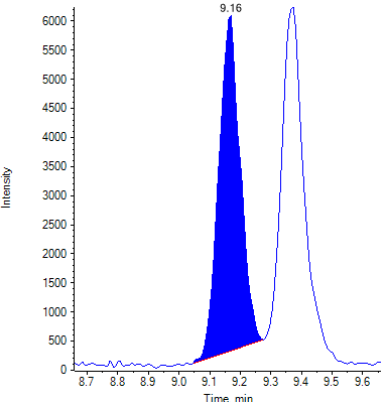
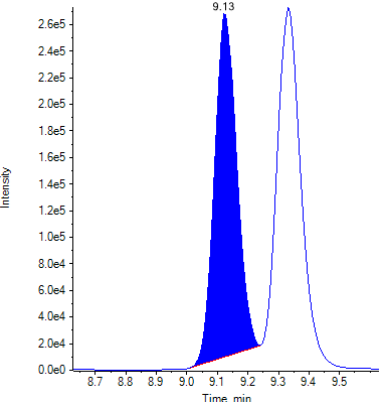
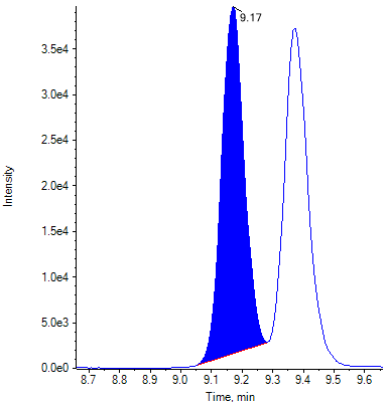
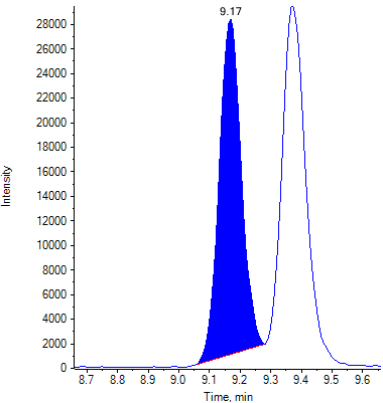
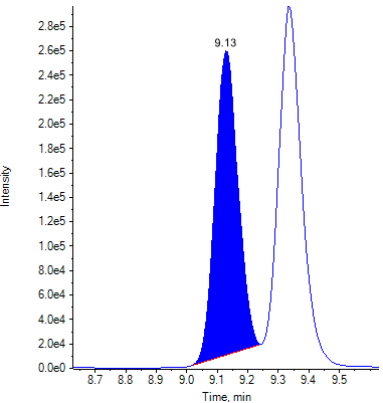
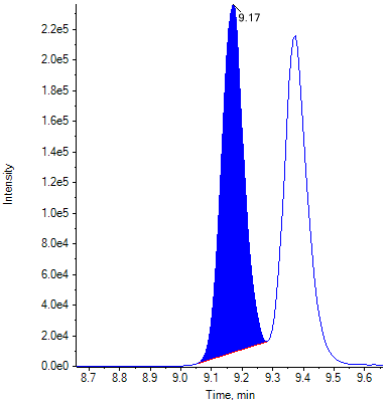
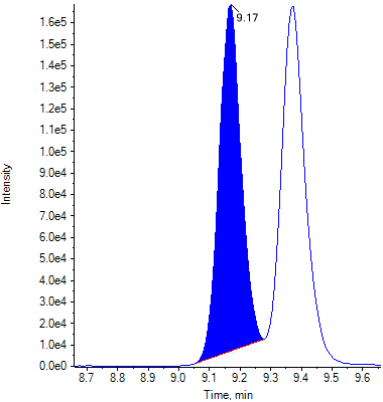
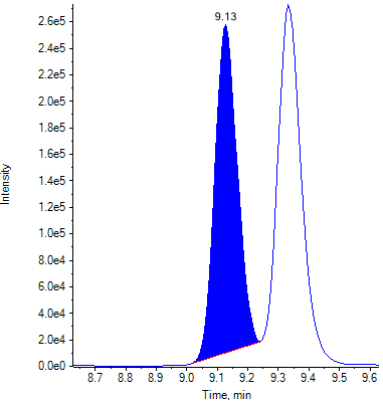
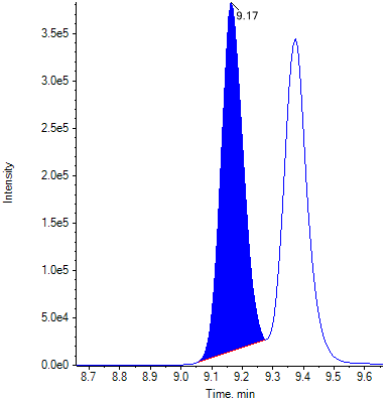
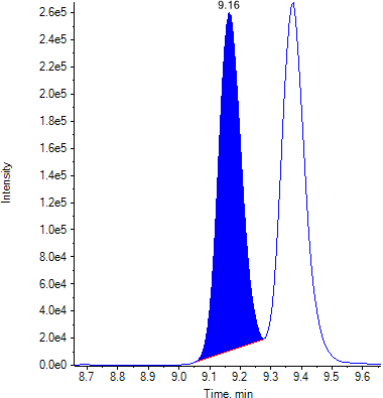
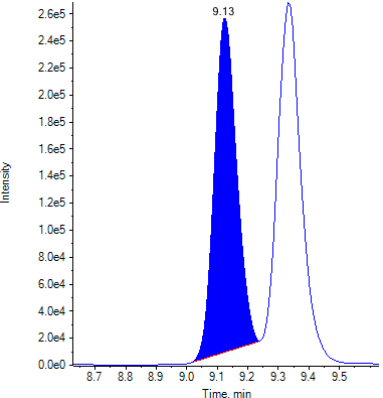
Sample Name	Area Ratio	Actual Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
Standard 1	0.0300	1.00	1.032	103.21
Standard 2	0.1503	5.00	4.842	96.83
Standard 3	0.9178	30.00	29.934	99.78
Standard 4	1.4697	50.00	48.916	97.83
Standard 5	2.1222	70.00	72.539	103.63
Standard 6	2.8010	100.00	98.735	98.74
Low A	0.0933	3.00	3.032	101.08
Low B	0.0905	3.00	2.943	98.11
Low C	0.0907	3.00	2.951	98.37
Medium A	1.2889	40.00	42.603	106.51
Medium B	1.3064	40.00	43.211	108.03
Medium C	1.2946	40.00	42.799	107.00
High A	2.5646	80.00	89.402	111.75
High B	2.5937	80.00	90.538	113.17
High C	2.6310	80.00	92.001	115.00
Negative	N/A	0.00	N/A	N/A
Standard 1 A	0.0296	1.00	1.021	102.08
Standard 1 B	0.0290	1.00	1.000	100.04
Standard 1 C	0.0338	1.00	1.152	115.23

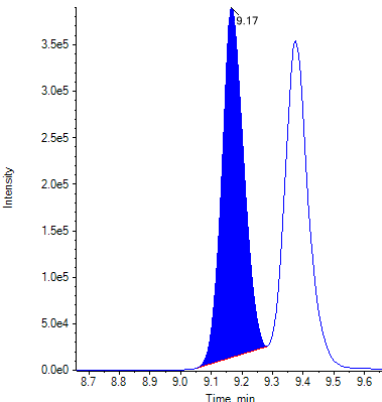
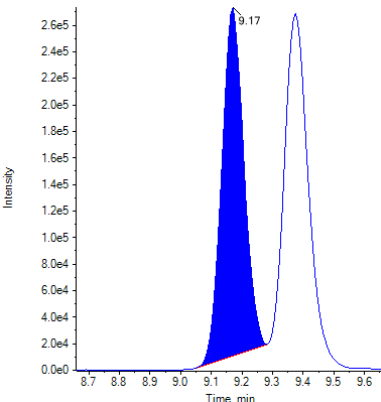
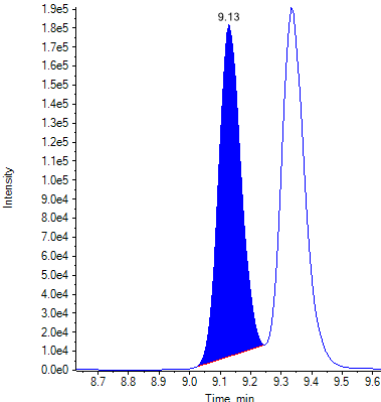
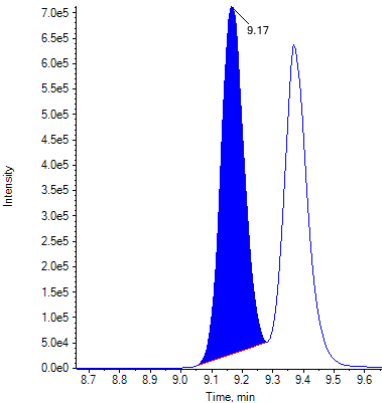
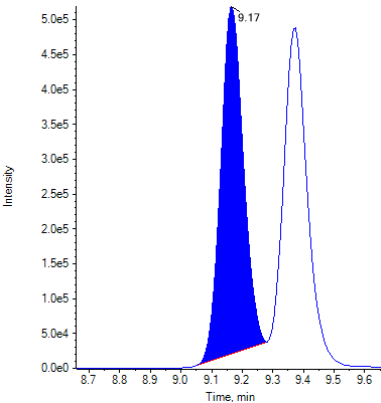
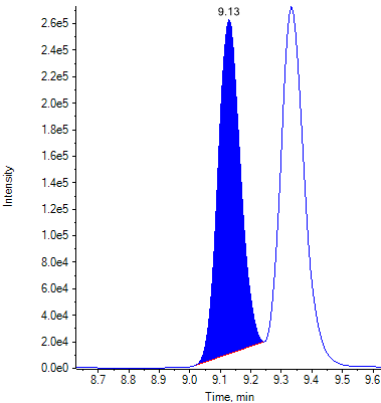
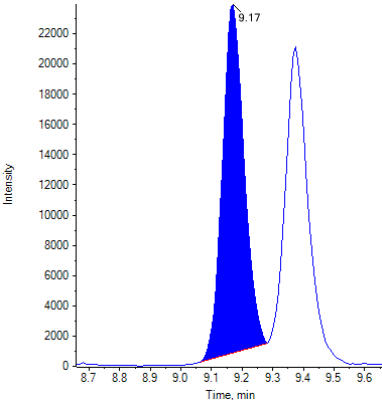
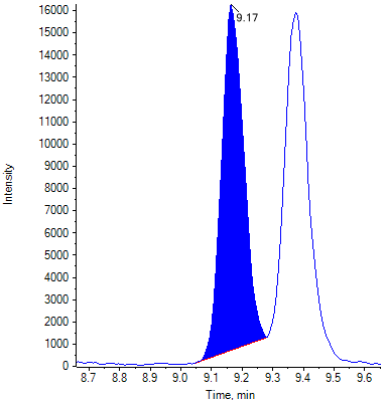
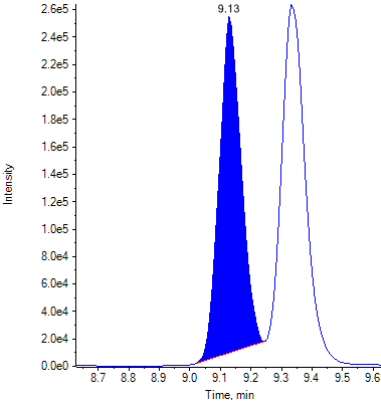
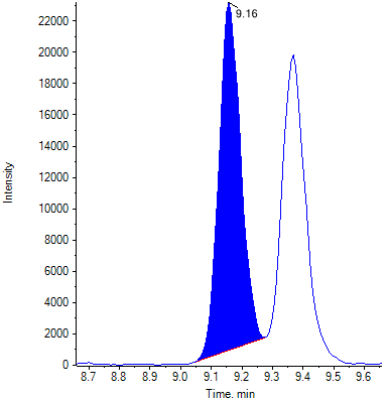
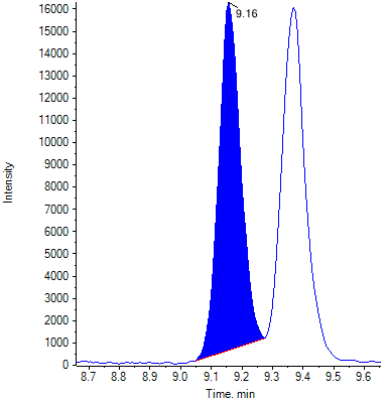
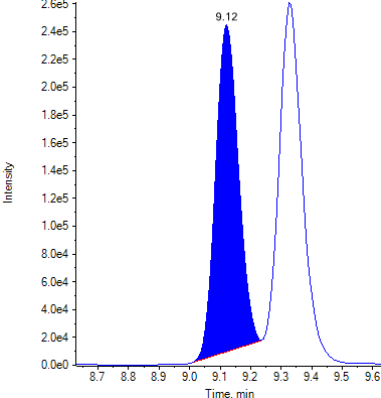
Identification Summary: Δ9-THC

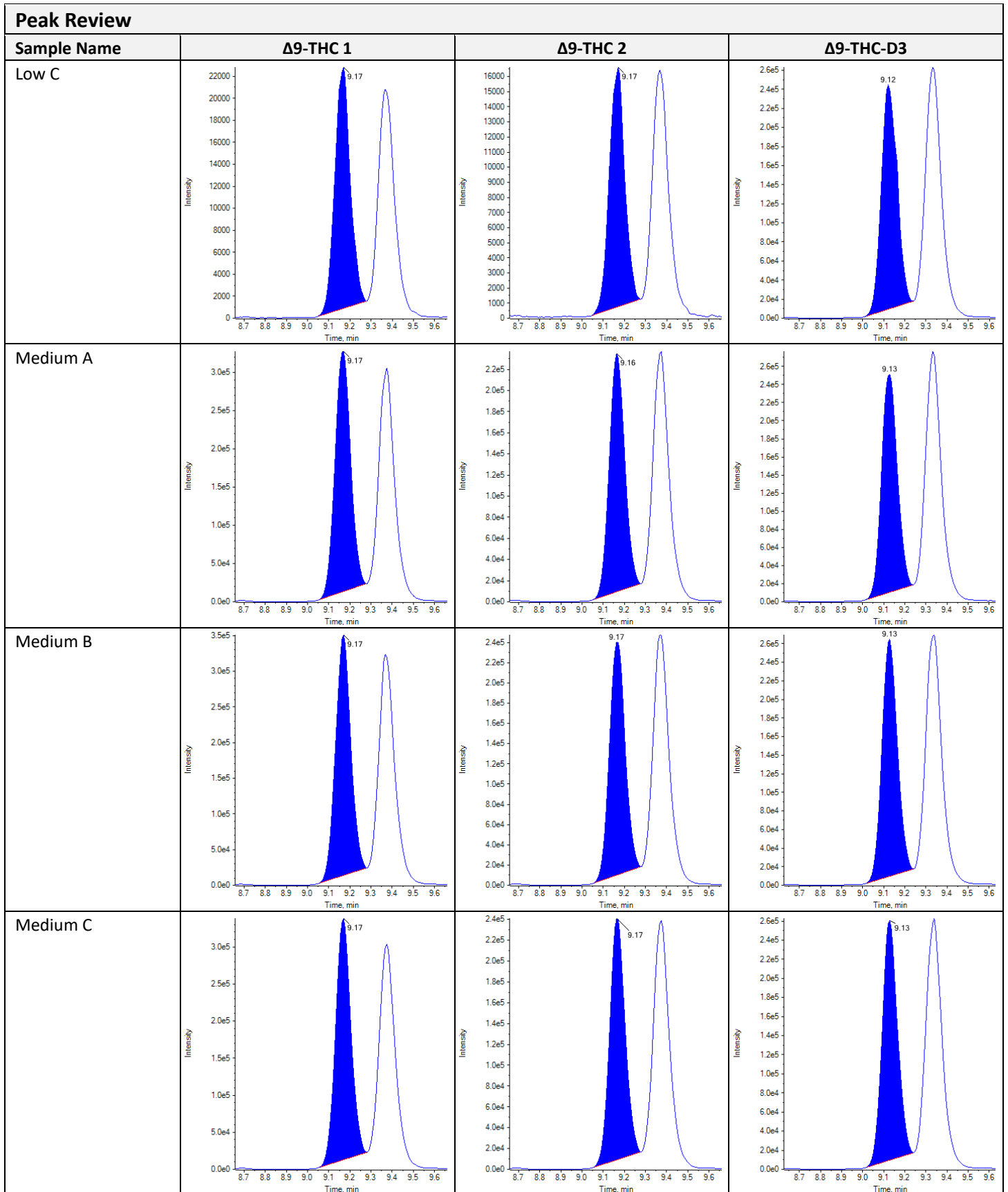
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 1	Δ9-THC 1	1.004 (Pass)	0.716 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Standard 2	Δ9-THC 1	1.004 (Pass)	0.705 (Pass)
	Δ9-THC 2	1.004 (Pass)	

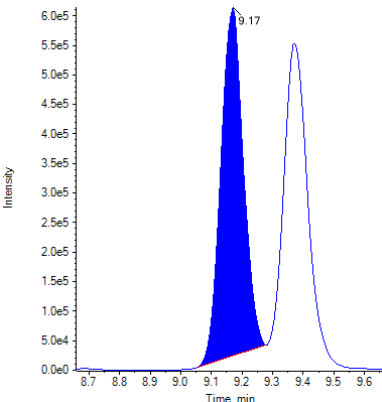
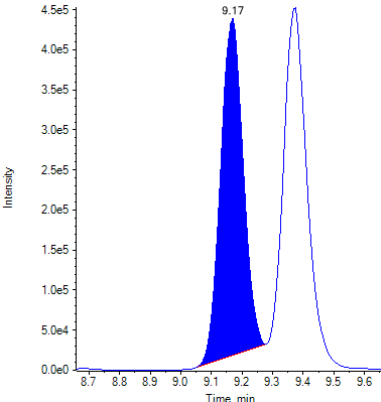
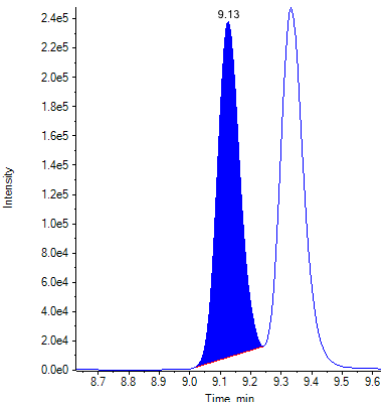
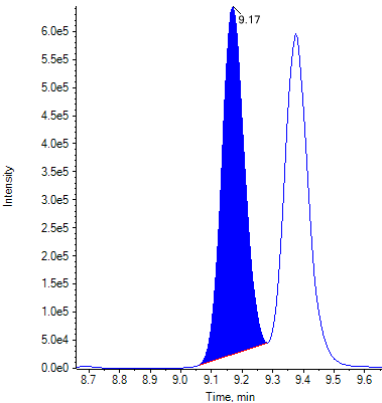
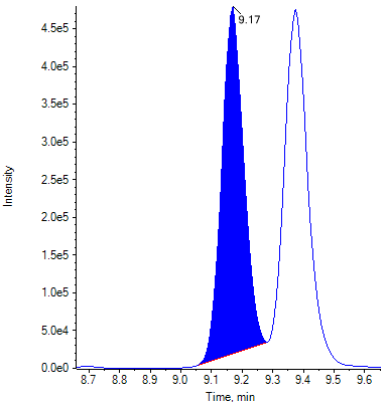
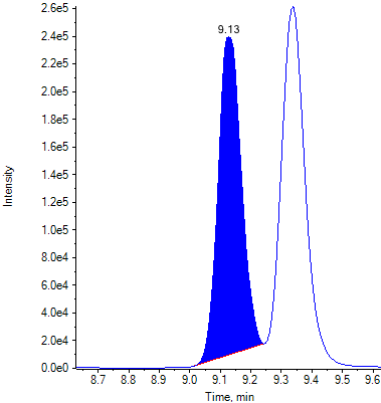
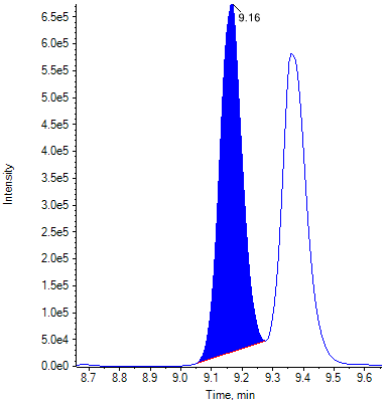
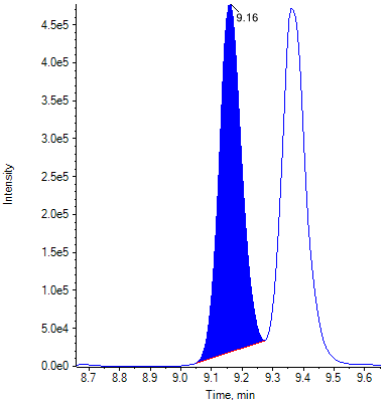
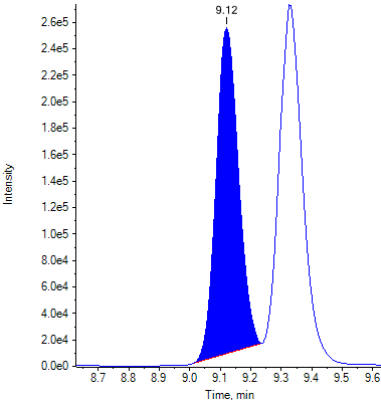
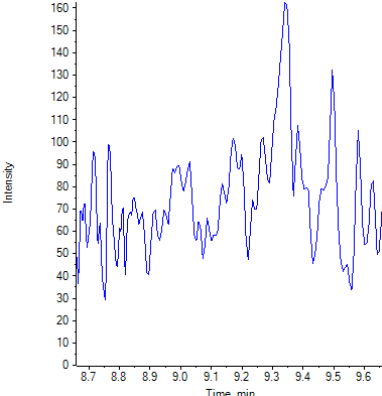
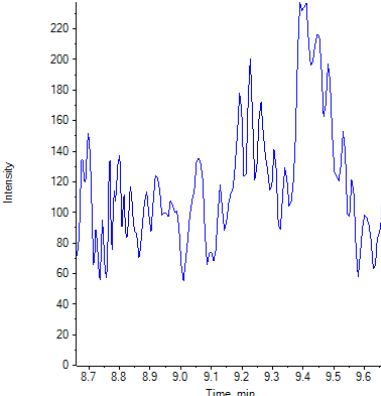
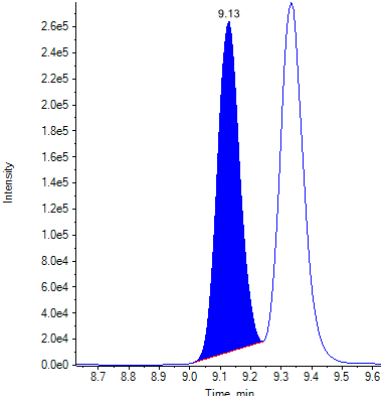
Identification Summary: Δ9-THC			
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 3	Δ9-THC 1	1.005 (Pass)	0.695 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Standard 4	Δ9-THC 1	1.004 (Pass)	0.702 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Standard 5	Δ9-THC 1	1.004 (Pass)	0.704 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Standard 6	Δ9-THC 1	1.004 (Pass)	0.713 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Low A	Δ9-THC 1	1.004 (Pass)	0.689 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Low B	Δ9-THC 1	1.004 (Pass)	0.703 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Low C	Δ9-THC 1	1.005 (Pass)	0.725 (Pass)
	Δ9-THC 2	1.005 (Pass)	
Medium A	Δ9-THC 1	1.004 (Pass)	0.708 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Medium B	Δ9-THC 1	1.004 (Pass)	0.706 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Medium C	Δ9-THC 1	1.004 (Pass)	0.716 (Pass)
	Δ9-THC 2	1.004 (Pass)	
High A	Δ9-THC 1	1.004 (Pass)	0.720 (Pass)
	Δ9-THC 2	1.004 (Pass)	
High B	Δ9-THC 1	1.004 (Pass)	0.721 (Pass)
	Δ9-THC 2	1.004 (Pass)	
High C	Δ9-THC 1	1.004 (Pass)	0.711 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Negative	Δ9-THC 1	N/A ()	N/A ()
	Δ9-THC 2	N/A ()	
Standard 1 A	Δ9-THC 1	1.004 (Pass)	0.696 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Standard 1 B	Δ9-THC 1	1.004 (Pass)	0.736 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Standard 1 C	Δ9-THC 1	1.004 (Pass)	0.692 (Pass)
	Δ9-THC 2	1.004 (Pass)	

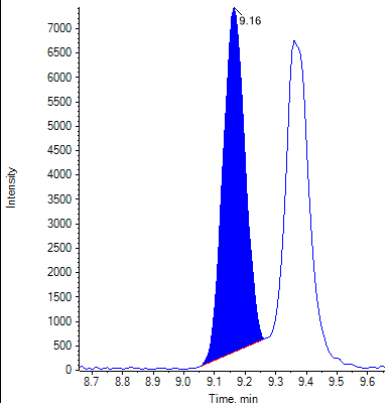
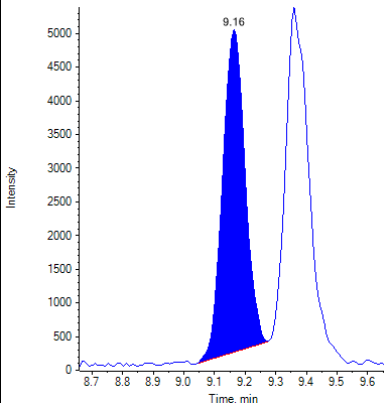
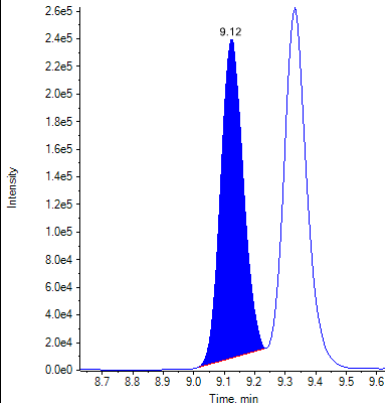
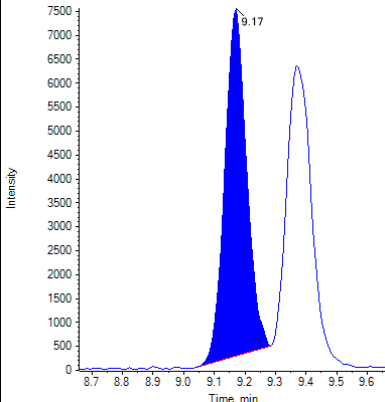
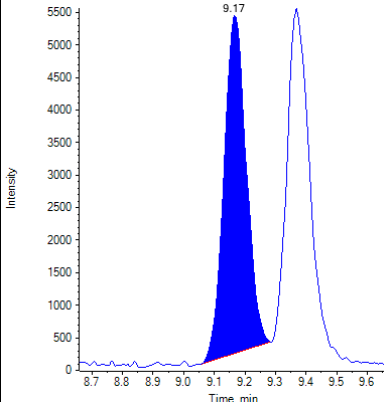
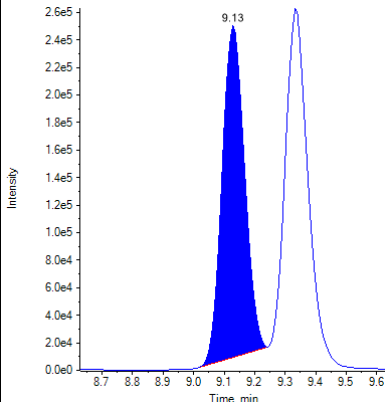
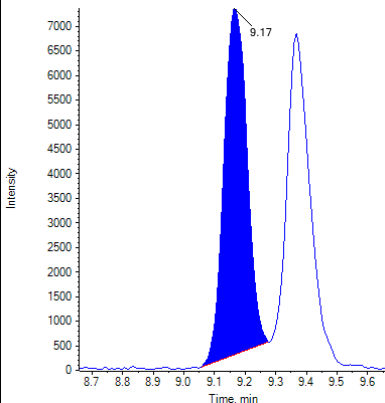
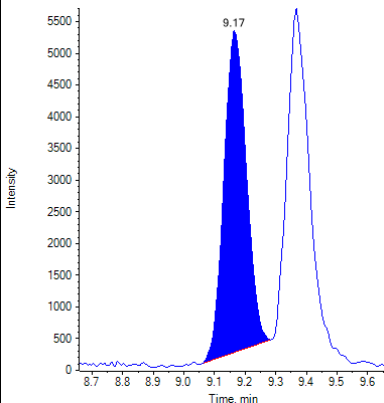
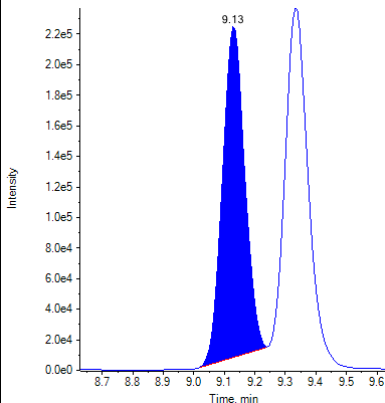
Peak Review			
Sample Name	Δ9-THC 1	Δ9-THC 2	Δ9-THC-D3

Peak Review			
Sample Name	$\Delta 9$ -THC 1	$\Delta 9$ -THC 2	$\Delta 9$ -THC-D3
Standard 1			
Standard 2			
Standard 3			
Standard 4			

Peak Review			
Sample Name	$\Delta 9$ -THC 1	$\Delta 9$ -THC 2	$\Delta 9$ -THC-D3
Standard 5			
Standard 6			
Low A			
Low B			

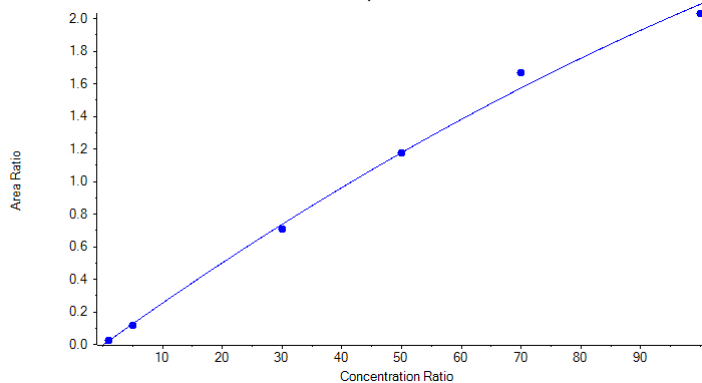


Peak Review			
Sample Name	$\Delta 9$ -THC 1	$\Delta 9$ -THC 2	$\Delta 9$ -THC-D3
High A			
High B			
High C			
Negative			

Peak Review			
Sample Name	$\Delta 9$ -THC 1	$\Delta 9$ -THC 2	$\Delta 9$ -THC-D3
Standard 1 A			
Standard 1 B			
Standard 1 C			

Calibration Summary: Δ8-THC

$$y = -5.40315e-5 x^2 + 0.02634 x - 0.00464 \quad (r = 0.99902) \quad (\text{weighting: } 1/x)$$



Analyte Transition Mass

Internal Standard	Δ8-THC-D3
I.S. Transition Mass	318.1 / 123.0
Δ8-THC 1	315.1 / 193.1
Δ8-THC 2	315.1 / 123.1
Relative Retention time: Expected (Acceptance Range)	
Δ8-THC 1	1.004 (0.979-1.029)
Δ8-THC 2	1.004 (0.979-1.029)
Ion Ratio: Expected (Acceptance Range)	
Δ8-THC 2	0.777 (0.622-0.932)
Δ8-THC comment	

Quantitative Summary: Δ8-THC

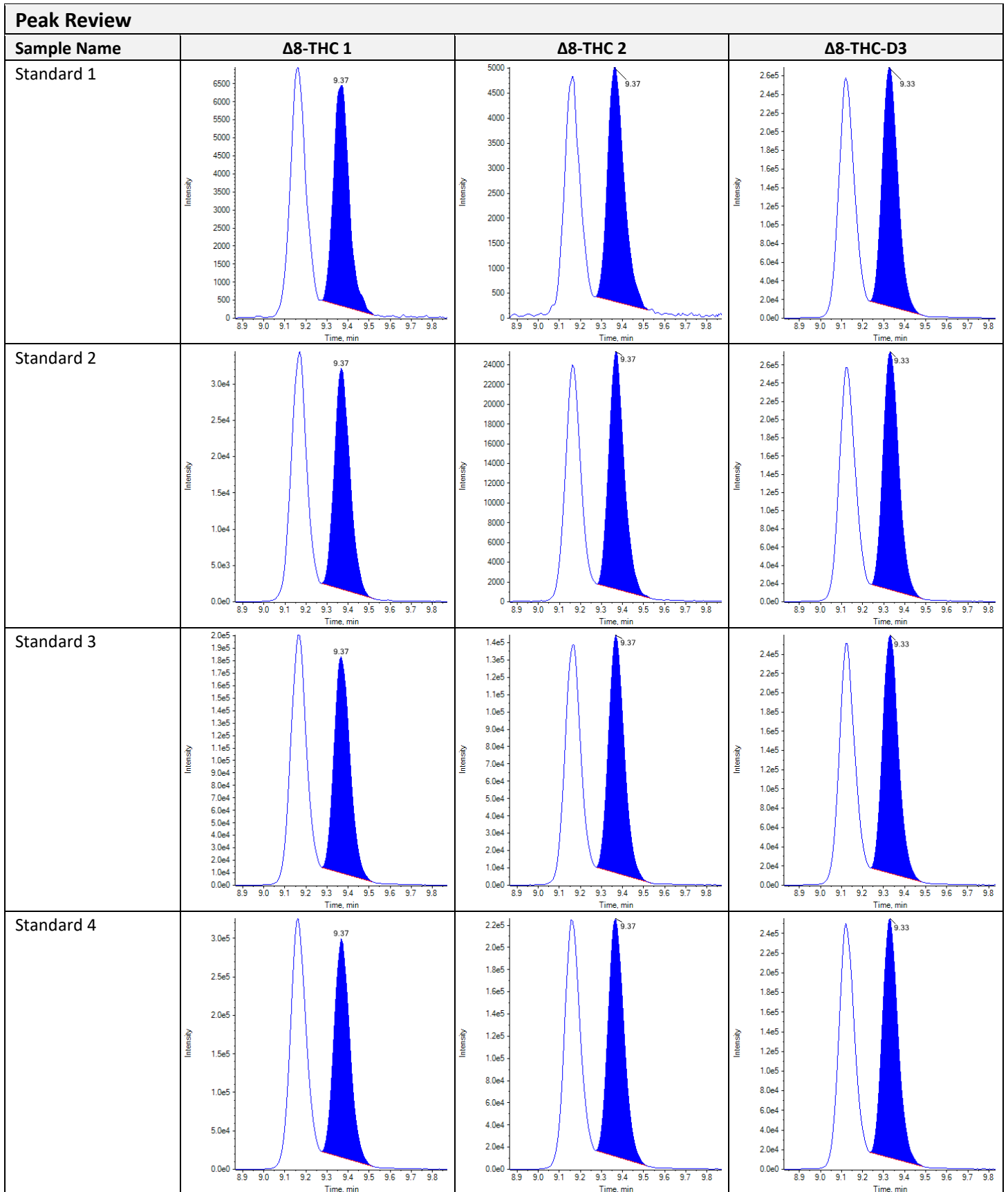
Sample Name	Area Ratio	Actual Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
Standard 1	0.0240	1.00	1.089	108.92
Standard 2	0.1150	5.00	4.586	91.72
Standard 3	0.7073	30.00	28.726	95.75
Standard 4	1.1763	50.00	49.962	99.92
Standard 5	1.6704	70.00	75.211	107.44
Standard 6	2.0309	100.00	96.333	96.33
Low A	0.0693	3.00	2.822	94.08
Low B	0.0706	3.00	2.873	95.76
Low C	0.0730	3.00	2.965	98.82
Medium A	0.9992	40.00	41.681	104.20
Medium B	1.0346	40.00	43.310	108.28
Medium C	1.0270	40.00	42.960	107.40
High A	2.0653	80.00	98.509	123.14
High B	2.0567	80.00	97.963	122.45
High C	2.0580	80.00	98.043	122.55
Negative	N/A	0.00	N/A	N/A
Standard 1 A	0.0238	1.00	1.084	108.40
Standard 1 B	0.0232	1.00	1.058	105.81
Standard 1 C	0.0246	1.00	1.111	111.14

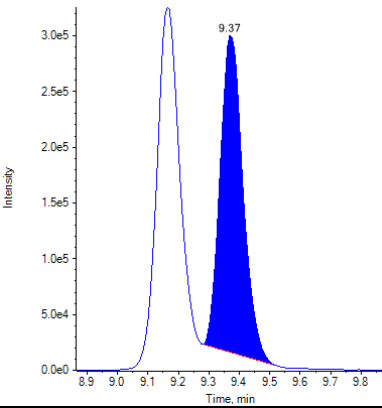
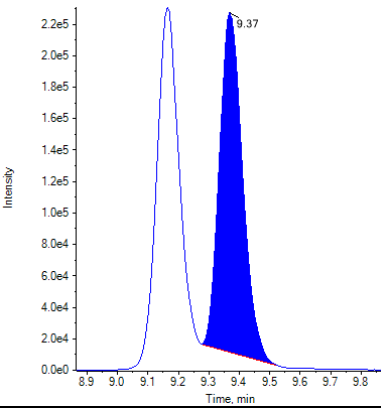
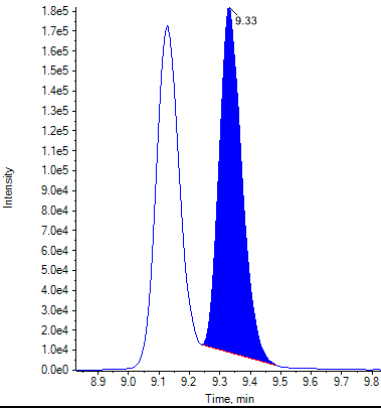
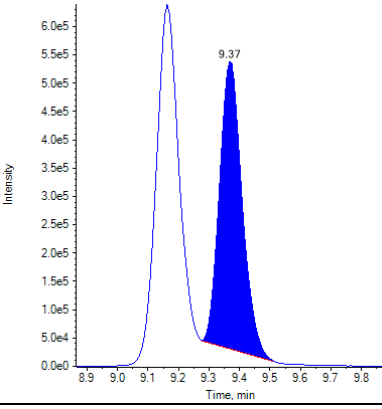
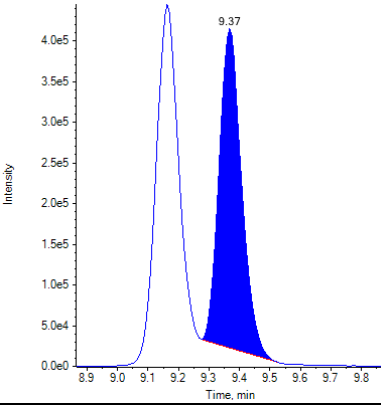
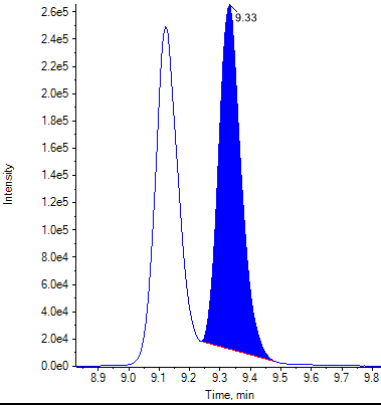
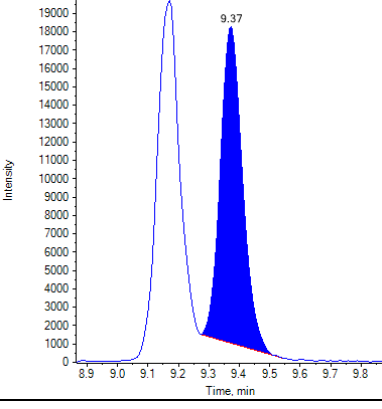
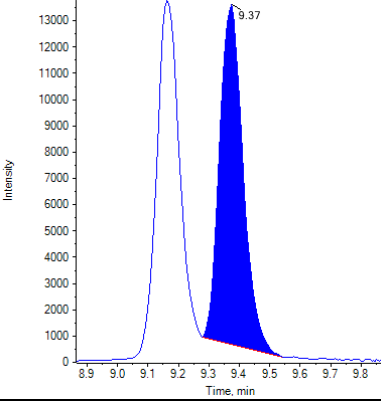
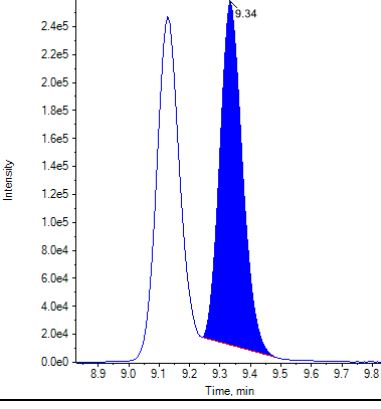
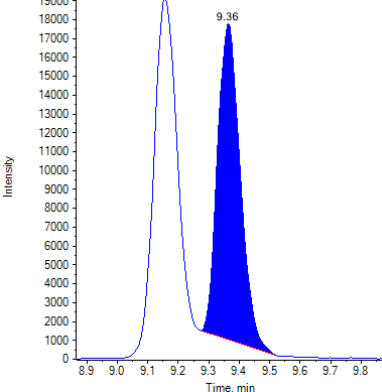
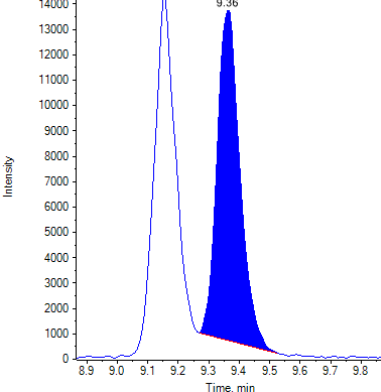
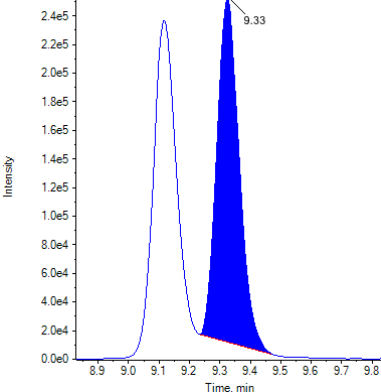
Identification Summary: Δ8-THC

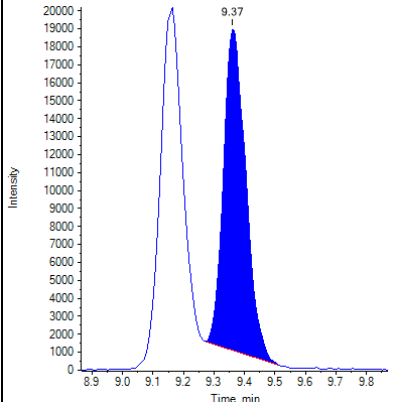
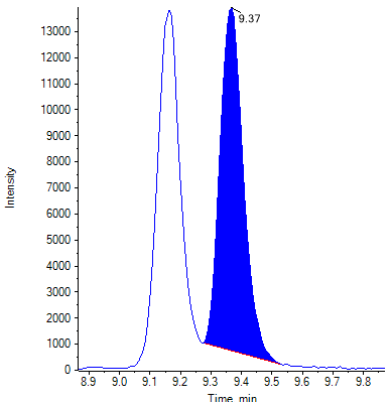
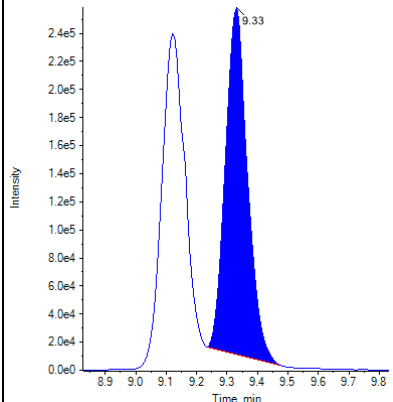
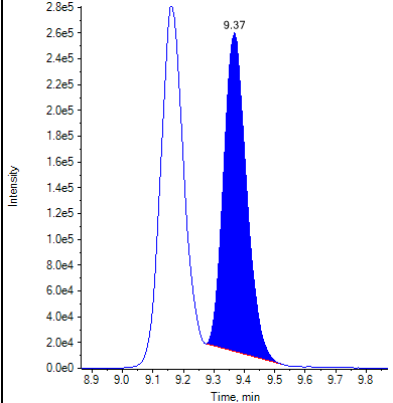
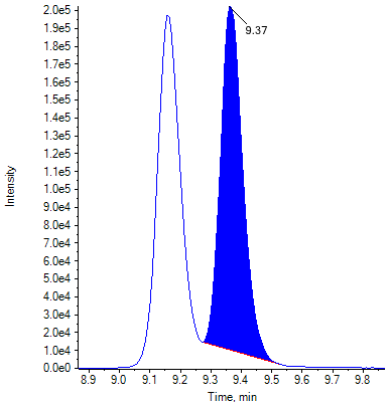
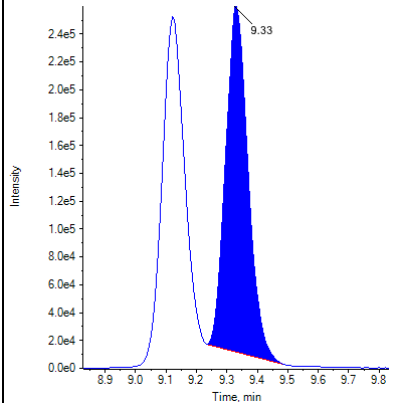
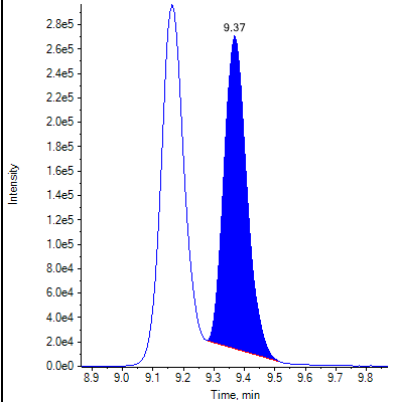
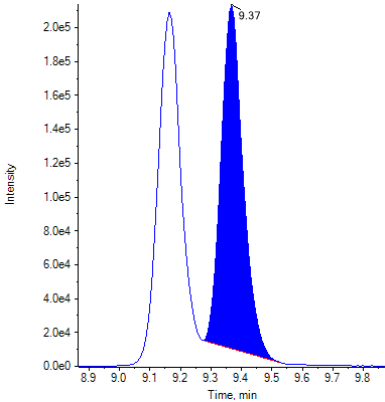
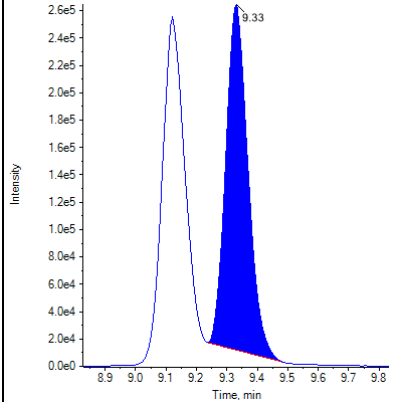
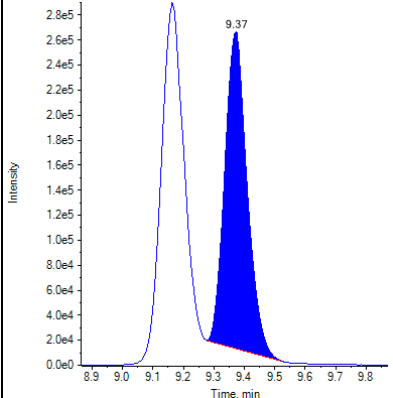
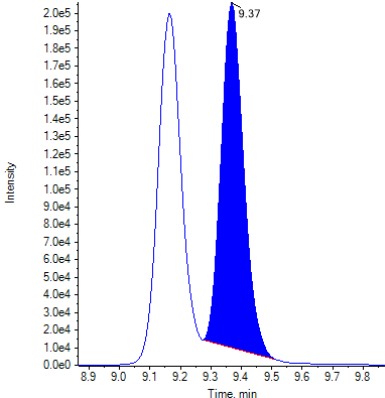
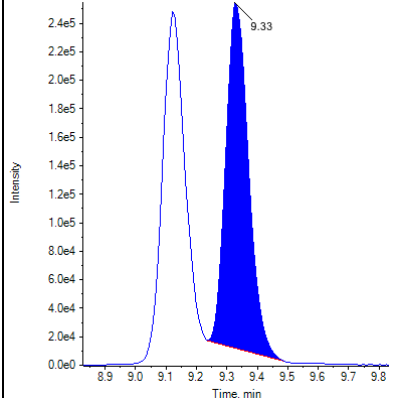
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 1	Δ8-THC 1	1.004 (Pass)	0.807 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Standard 2	Δ8-THC 1	1.004 (Pass)	0.778 (Pass)
	Δ8-THC 2	1.004 (Pass)	

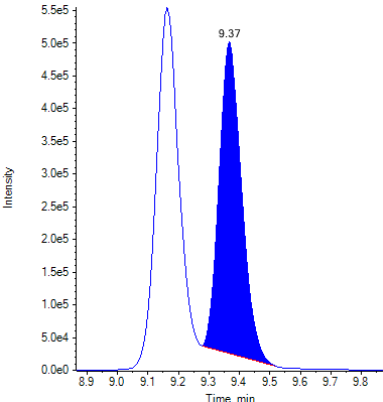
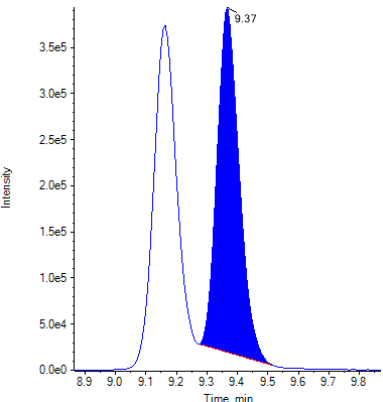
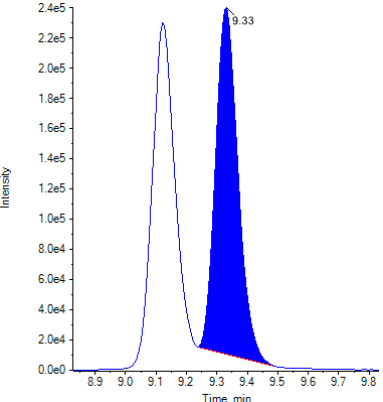
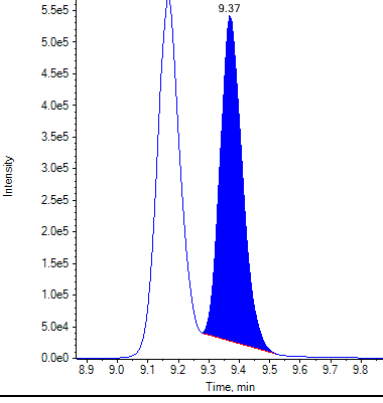
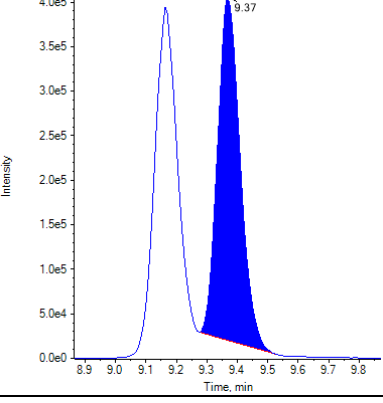
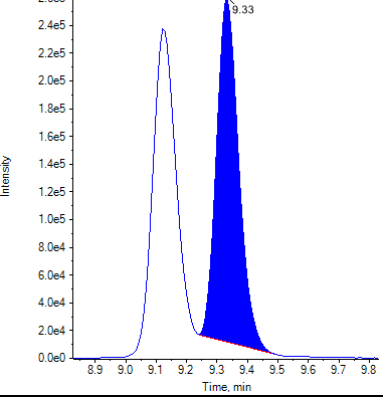
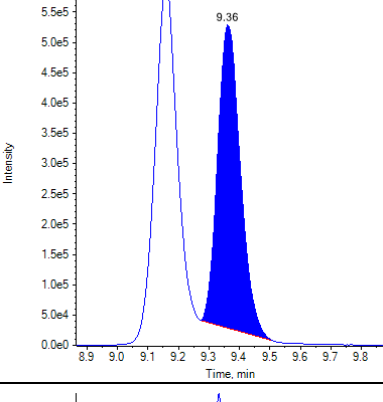
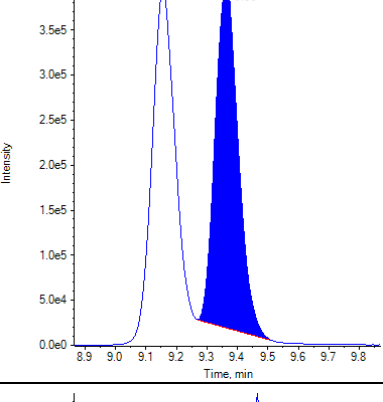
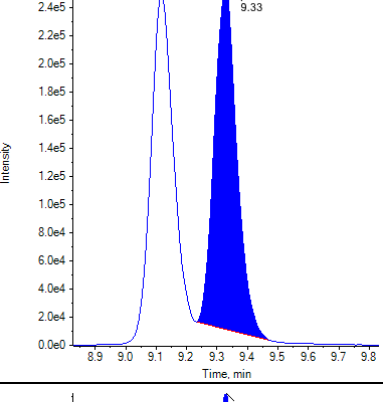
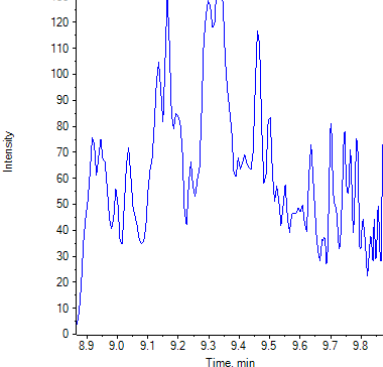
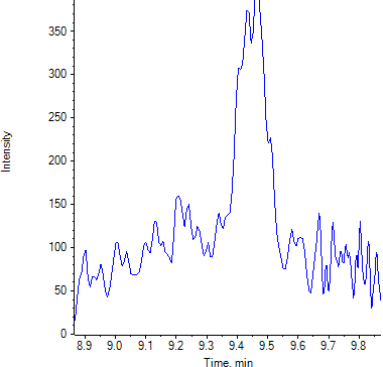
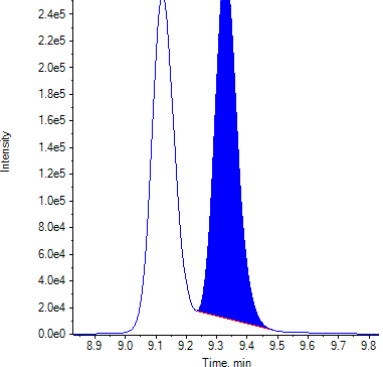
Identification Summary: Δ8-THC			
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 3	Δ8-THC 1	1.004 (Pass)	0.777 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Standard 4	Δ8-THC 1	1.004 (Pass)	0.762 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Standard 5	Δ8-THC 1	1.004 (Pass)	0.769 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Standard 6	Δ8-THC 1	1.004 (Pass)	0.768 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Low A	Δ8-THC 1	1.004 (Pass)	0.798 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Low B	Δ8-THC 1	1.004 (Pass)	0.787 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Low C	Δ8-THC 1	1.004 (Pass)	0.774 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Medium A	Δ8-THC 1	1.004 (Pass)	0.774 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Medium B	Δ8-THC 1	1.004 (Pass)	0.768 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Medium C	Δ8-THC 1	1.004 (Pass)	0.777 (Pass)
	Δ8-THC 2	1.004 (Pass)	
High A	Δ8-THC 1	1.004 (Pass)	0.775 (Pass)
	Δ8-THC 2	1.004 (Pass)	
High B	Δ8-THC 1	1.004 (Pass)	0.769 (Pass)
	Δ8-THC 2	1.004 (Pass)	
High C	Δ8-THC 1	1.004 (Pass)	0.776 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Negative	Δ8-THC 1	N/A ()	N/A ()
	Δ8-THC 2	N/A ()	
Standard 1 A	Δ8-THC 1	1.004 (Pass)	0.818 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Standard 1 B	Δ8-THC 1	1.004 (Pass)	0.840 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Standard 1 C	Δ8-THC 1	1.004 (Pass)	0.833 (Pass)
	Δ8-THC 2	1.004 (Pass)	

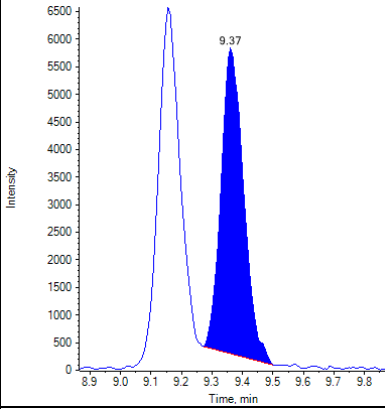
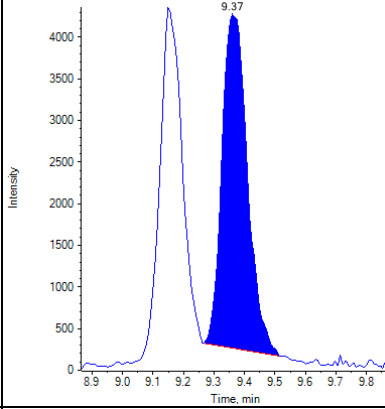
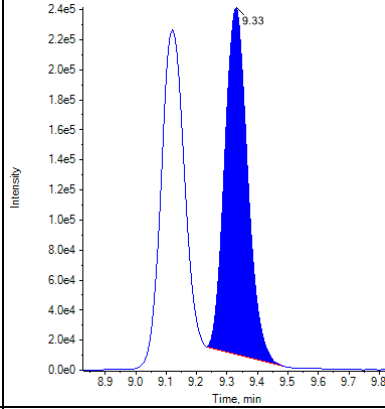
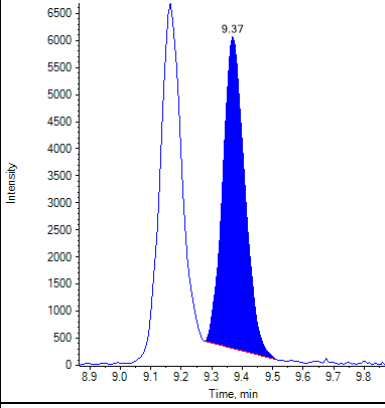
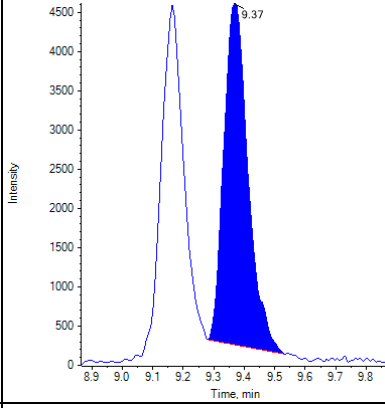
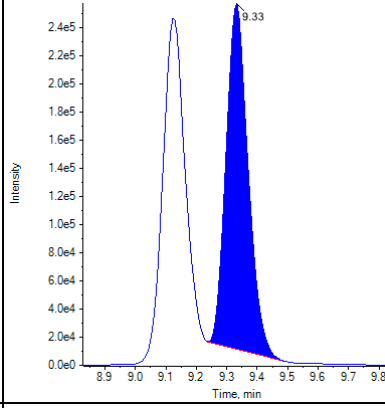
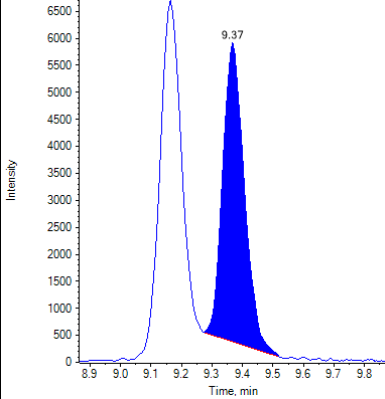
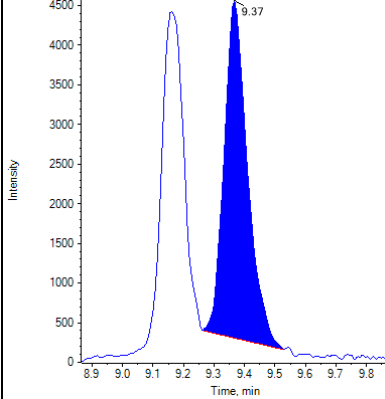
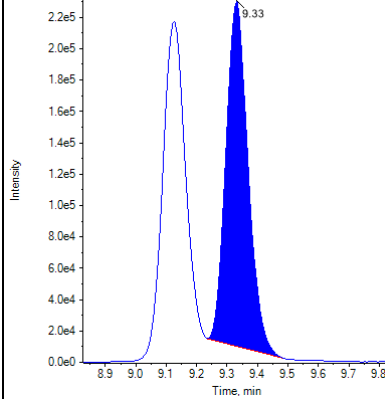
Peak Review			
Sample Name	Δ8-THC 1	Δ8-THC 2	Δ8-THC-D3



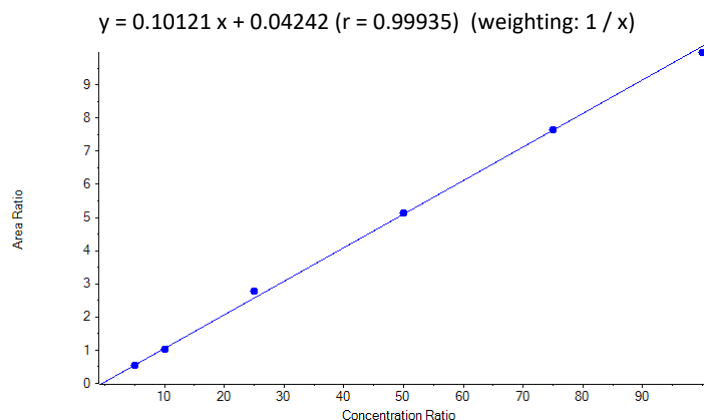
Peak Review			
Sample Name	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2	$\Delta 8$ -THC-D3
Standard 5			
Standard 6			
Low A			
Low B			

Peak Review			
Sample Name	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2	$\Delta 8$ -THC-D3
Low C			
Medium A			
Medium B			
Medium C			

Peak Review			
Sample Name	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2	$\Delta 8$ -THC-D3
High A			
High B			
High C			
Negative			

Peak Review			
Sample Name	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2	$\Delta 8$ -THC-D3
Standard 1 A			
Standard 1 B			
Standard 1 C			

Calibration Summary: THC-COOH



Analyte Transition Mass	
Internal Standard	THC-COOH-D3
I.S. Transition Mass	346.0 / 194.0
THC-COOH 1	343.0 / 299.1
THC-COOH 2	343.0 / 191.0
Relative Retention time: Expected (Acceptance Range)	
THC-COOH 1	1.007 (0.982-1.032)
THC-COOH 2	1.007 (0.982-1.032)
Ion Ratio: Expected (Acceptance Range)	
THC-COOH 2	0.184 (0.147-0.221)
THC-COOH comment	

Quantitative Summary: THC-COOH

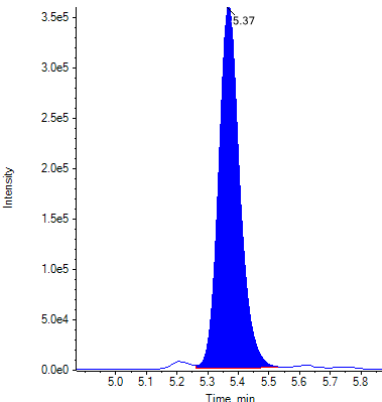
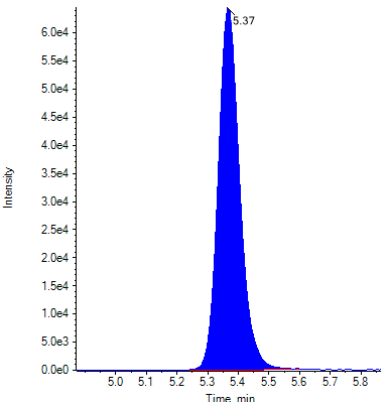
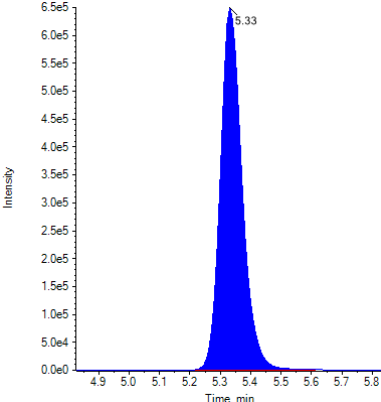
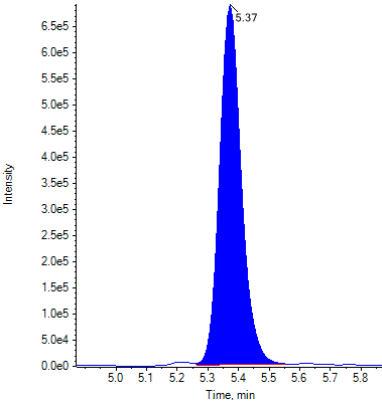
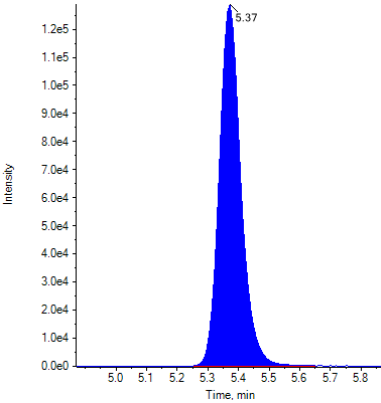
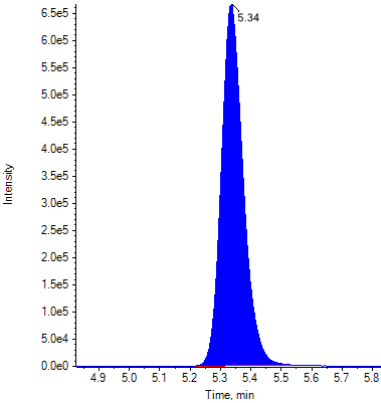
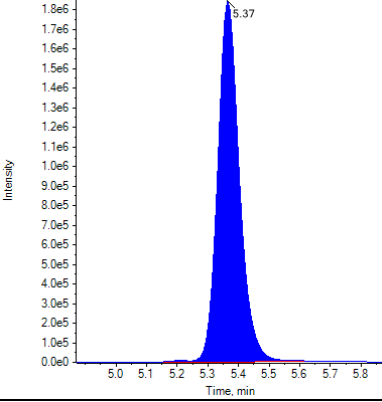
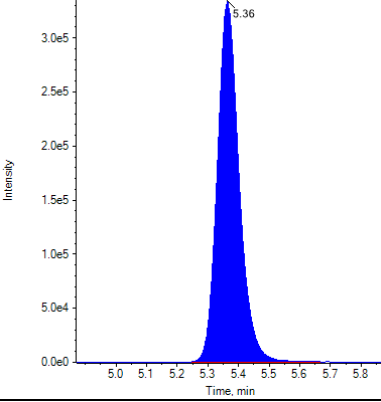
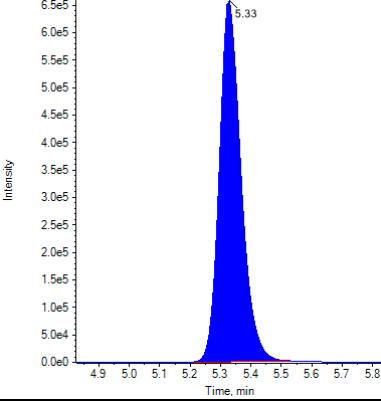
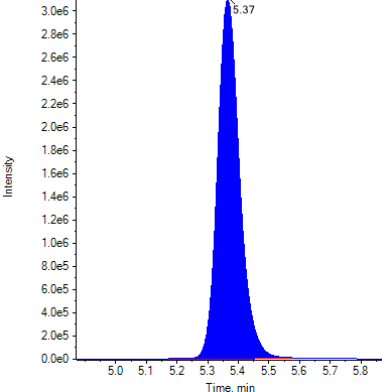
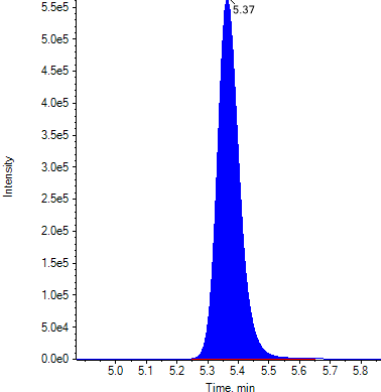
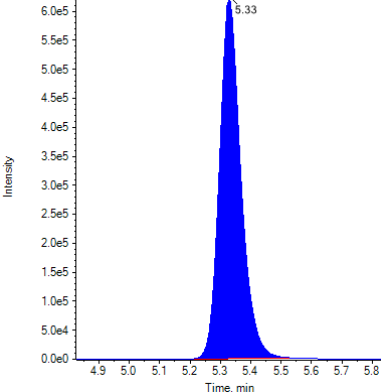
Sample Name	Area Ratio	Actual Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
Standard 1	0.5317	5.00	4.834	96.68
Standard 2	1.0176	10.00	9.635	96.35
Standard 3	2.7807	25.00	27.056	108.22
Standard 4	5.1259	50.00	50.228	100.46
Standard 5	7.6455	75.00	75.123	100.16
Standard 6	9.9735	100.00	98.124	98.12
Low A	0.8136	8.00	7.620	95.25
Low B	0.7929	8.00	7.415	92.69
Low C	0.8050	8.00	7.534	94.18
Medium A	4.4921	40.00	43.965	109.91
Medium B	4.6249	40.00	45.277	113.19
Medium C	4.5659	40.00	44.695	111.74
High A	8.1256	80.00	79.867	99.83
High B	7.9213	80.00	77.848	97.31
High C	7.7797	80.00	76.449	95.56
Negative	N/A	0.00	N/A	N/A
Standard 1 A	0.5170	5.00	4.689	93.79
Standard 1 B	0.5085	5.00	4.605	92.11
Standard 1 C	0.5500	5.00	5.015	100.31

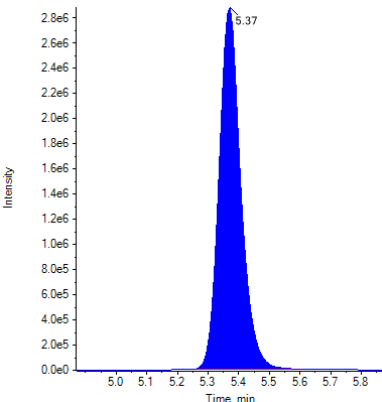
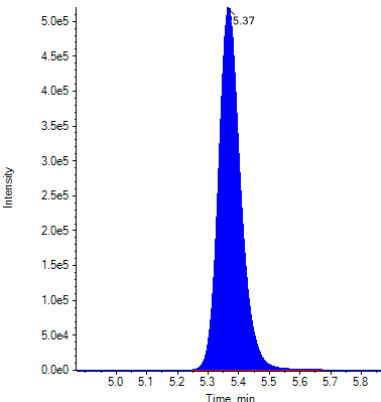
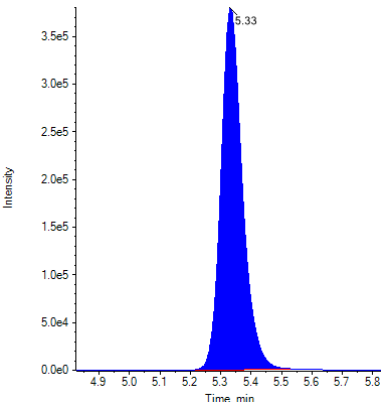
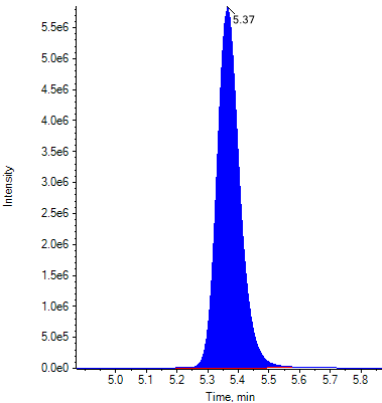
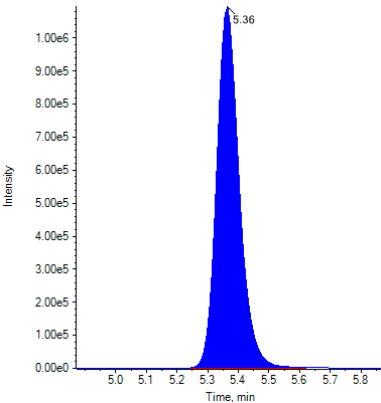
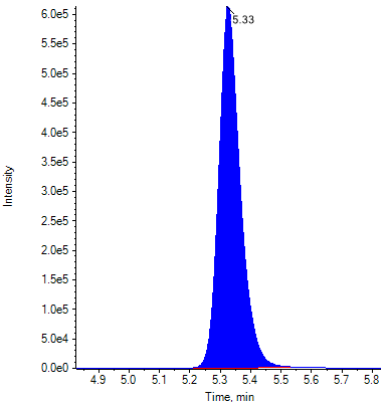
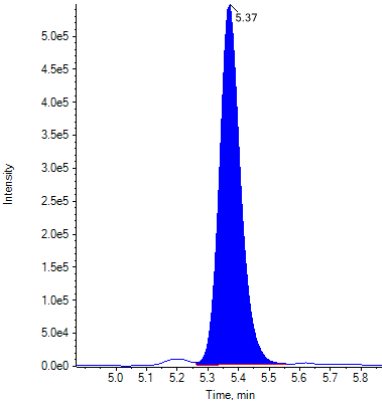
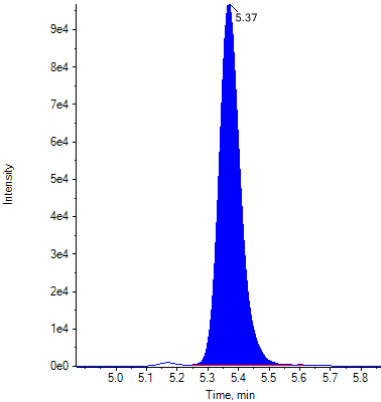
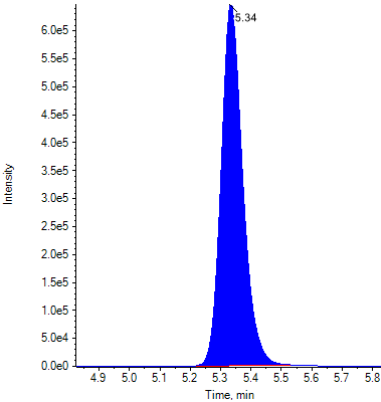
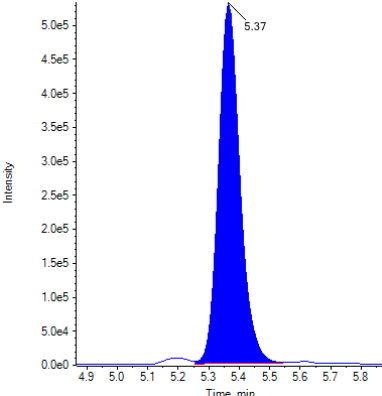
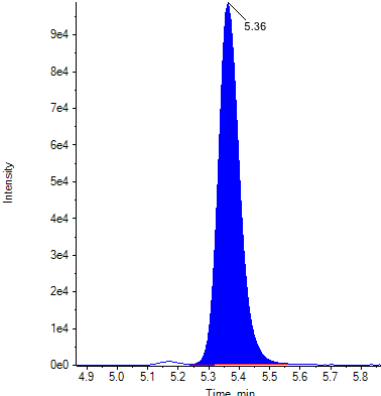
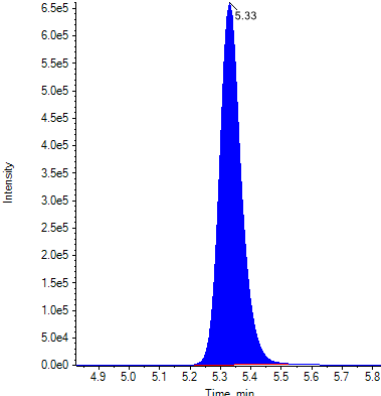
Identification Summary: THC-COOH

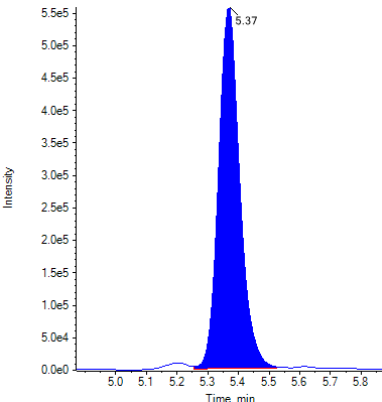
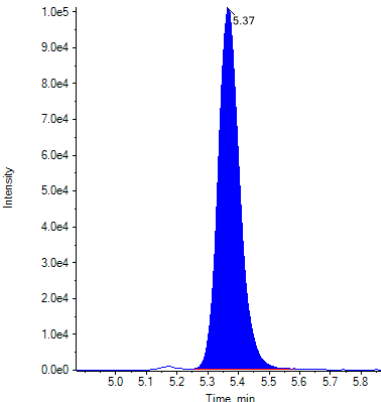
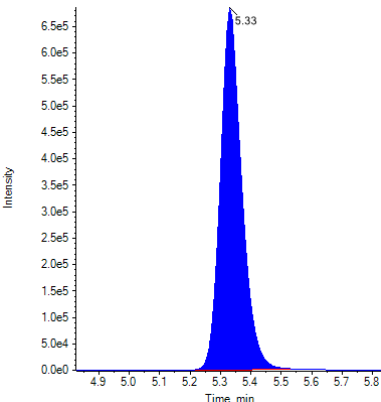
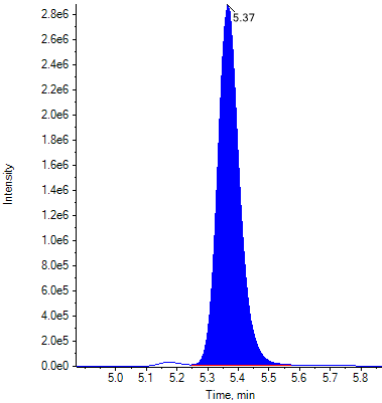
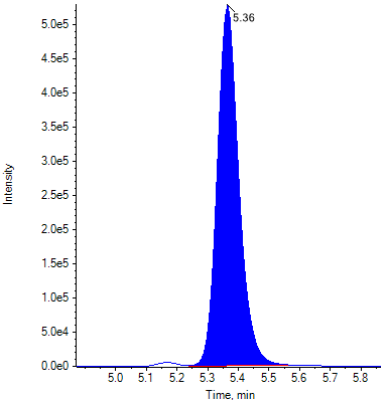
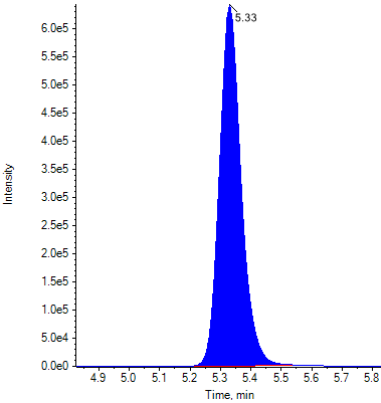
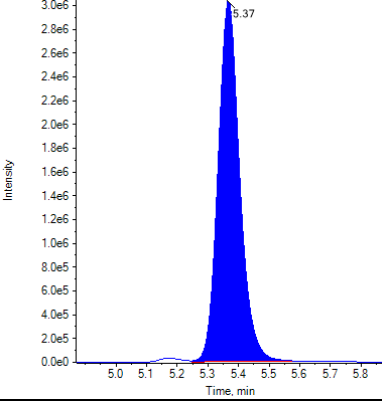
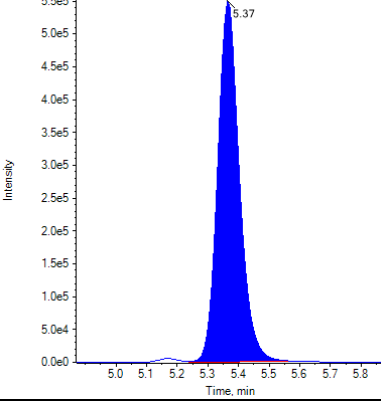
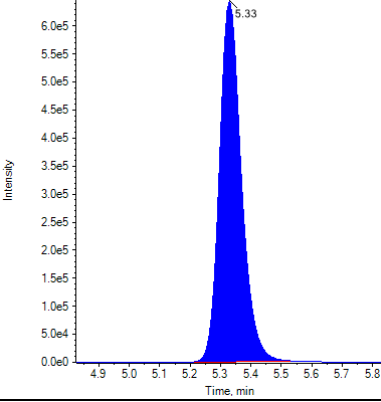
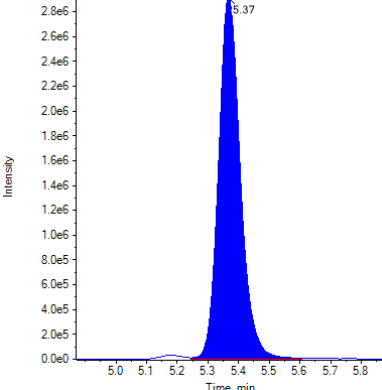
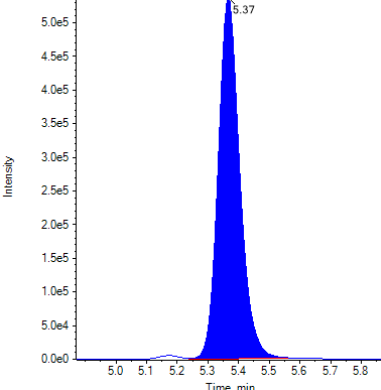
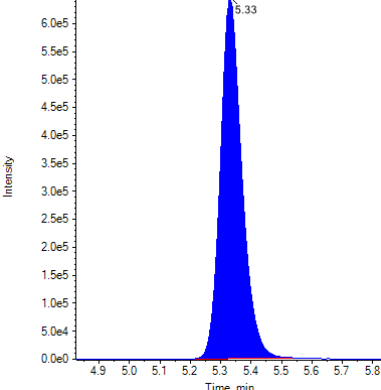
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 1	THC-COOH 1	1.007 (Pass)	0.184 (Pass)
	THC-COOH 2	1.006 (Pass)	
Standard 2	THC-COOH 1	1.007 (Pass)	0.187 (Pass)

Identification Summary: THC-COOH			
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
	THC-COOH 2	1.006 (Pass)	
Standard 3	THC-COOH 1	1.007 (Pass)	0.181 (Pass)
	THC-COOH 2	1.007 (Pass)	
Standard 4	THC-COOH 1	1.007 (Pass)	0.180 (Pass)
	THC-COOH 2	1.007 (Pass)	
Standard 5	THC-COOH 1	1.007 (Pass)	0.183 (Pass)
	THC-COOH 2	1.006 (Pass)	
Standard 6	THC-COOH 1	1.007 (Pass)	0.186 (Pass)
	THC-COOH 2	1.007 (Pass)	
Low A	THC-COOH 1	1.007 (Pass)	0.180 (Pass)
	THC-COOH 2	1.006 (Pass)	
Low B	THC-COOH 1	1.007 (Pass)	0.186 (Pass)
	THC-COOH 2	1.006 (Pass)	
Low C	THC-COOH 1	1.007 (Pass)	0.183 (Pass)
	THC-COOH 2	1.006 (Pass)	
Medium A	THC-COOH 1	1.007 (Pass)	0.182 (Pass)
	THC-COOH 2	1.006 (Pass)	
Medium B	THC-COOH 1	1.007 (Pass)	0.181 (Pass)
	THC-COOH 2	1.007 (Pass)	
Medium C	THC-COOH 1	1.007 (Pass)	0.182 (Pass)
	THC-COOH 2	1.006 (Pass)	
High A	THC-COOH 1	1.007 (Pass)	0.182 (Pass)
	THC-COOH 2	1.007 (Pass)	
High B	THC-COOH 1	1.007 (Pass)	0.186 (Pass)
	THC-COOH 2	1.007 (Pass)	
High C	THC-COOH 1	1.007 (Pass)	0.183 (Pass)
	THC-COOH 2	1.007 (Pass)	
Negative	THC-COOH 1	N/A ()	N/A ()
	THC-COOH 2	N/A ()	
Standard 1 A	THC-COOH 1	1.006 (Pass)	0.184 (Pass)
	THC-COOH 2	1.006 (Pass)	
Standard 1 B	THC-COOH 1	1.006 (Pass)	0.187 (Pass)
	THC-COOH 2	1.006 (Pass)	
Standard 1 C	THC-COOH 1	1.007 (Pass)	0.184 (Pass)
	THC-COOH 2	1.006 (Pass)	

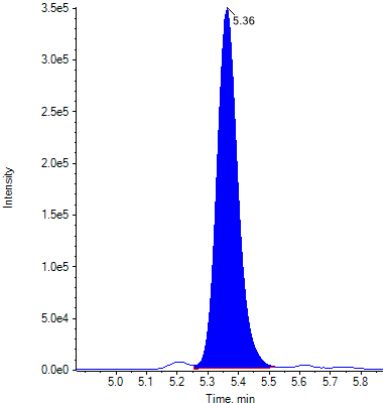
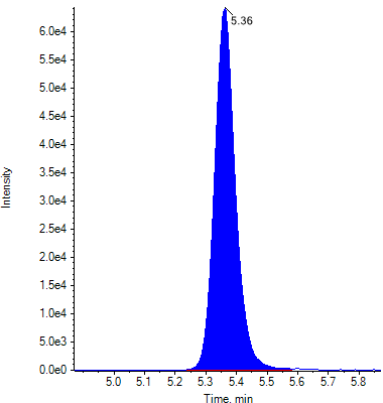
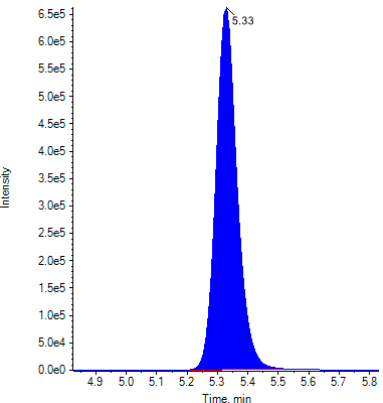
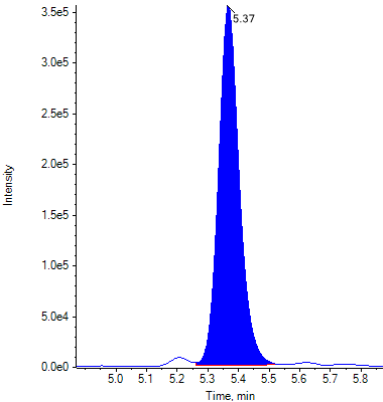
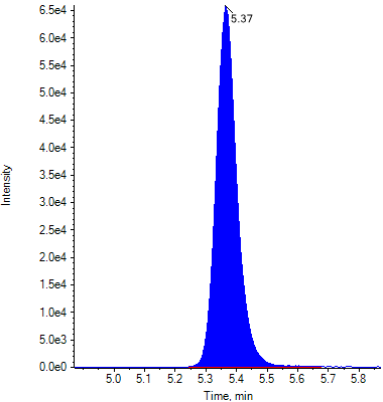
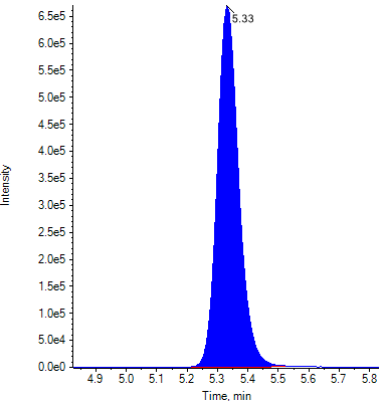
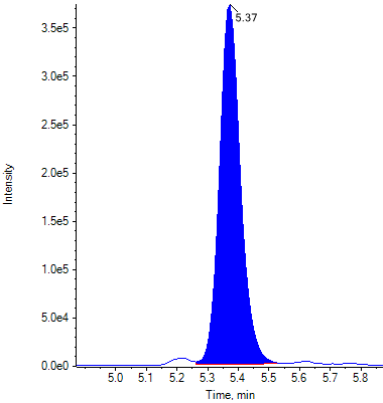
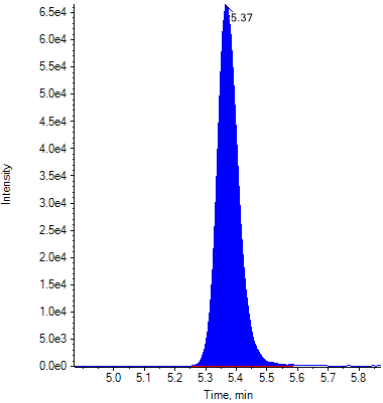
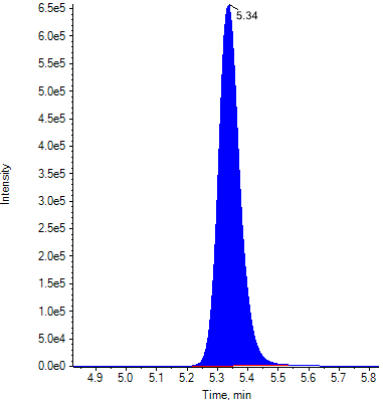
Peak Review			
Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3

Peak Review			
Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3
Standard 1			
Standard 2			
Standard 3			
Standard 4			

Peak Review			
Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3
Standard 5			
Standard 6			
Low A			
Low B			

Peak Review			
Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3
Low C			
Medium A			
Medium B			
Medium C			

Peak Review			
Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3
High A			
High B			
High C			
Negative			

Peak Review			
Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3
Standard 1 A			
Standard 1 B			
Standard 1 C			



Toxicology Unit
Calibration/Control Report
Quantitative Analysis

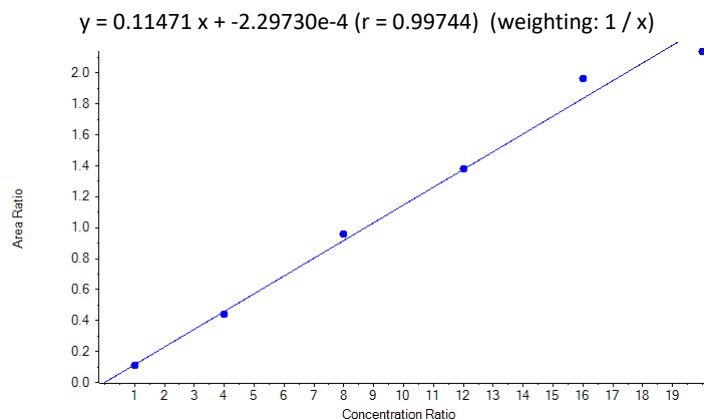
Batch Summary

Acquisition Method	THC.dam
Project	THC
Result Table	20220914SB

Result Table List

Sample Name	Sample Type	Position	Acquisition Time	Sample Comment
Standard 1	Standard	15	09/14/2022 17:05:19	
Standard 2	Standard	16	09/14/2022 17:19:24	
Standard 3	Standard	17	09/14/2022 17:33:29	
Standard 4	Standard	18	09/14/2022 17:47:35	
Standard 5	Standard	19	09/14/2022 18:01:37	
Standard 6	Standard	20	09/14/2022 18:15:42	
Low A	Quality Control	21	09/14/2022 18:29:48	
Low B	Quality Control	22	09/14/2022 18:43:53	
Low C	Quality Control	23	09/14/2022 18:57:59	
Medium A	Quality Control	24	09/14/2022 19:12:04	
Medium B	Quality Control	25	09/14/2022 19:26:09	
Medium C	Quality Control	26	09/14/2022 19:40:15	
High A	Quality Control	27	09/14/2022 19:54:20	
High B	Quality Control	28	09/14/2022 20:08:26	
High C	Quality Control	29	09/14/2022 20:22:31	
Negative	Quality Control	30	09/14/2022 20:36:36	
Standard 1 A	Quality Control	31	09/14/2022 20:50:42	
Standard 1 B	Quality Control	32	09/14/2022 21:04:47	
Standard 1 C	Quality Control	33	09/14/2022 21:18:53	

Calibration Summary: THC-OH



Analyte Transition Mass	
Internal Standard	THC-OH-D3
I.S. Transition Mass	334.1 / 196.1
THC-OH 1	331.1 / 193.1
THC-OH 2	331.1 / 105.1
Relative Retention time: Expected (Acceptance Range)	
THC-OH 1	1.007 (0.982-1.032)
THC-OH 2	1.006 (0.981-1.031)
Ion Ratio: Expected (Acceptance Range)	
THC-OH 2	0.728 (0.582-0.874)
THC-OH comment	

Quantitative Summary: THC-OH

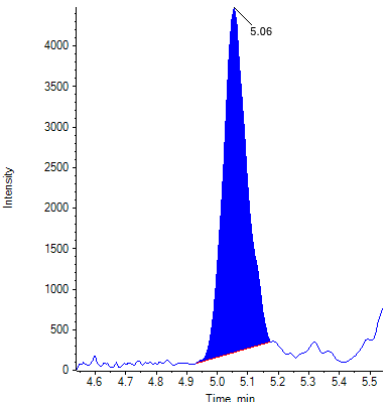
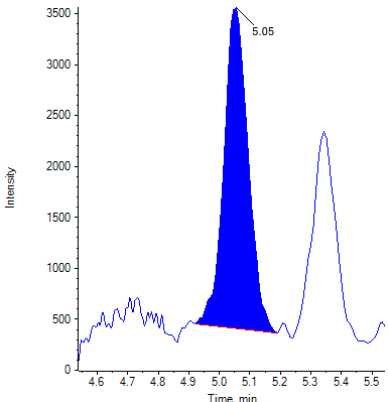
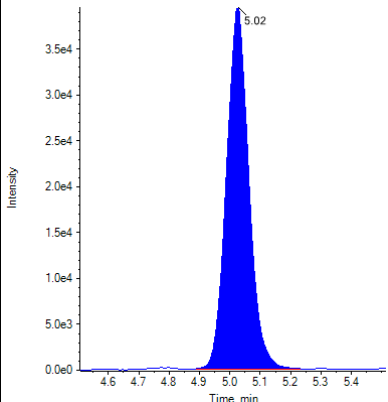
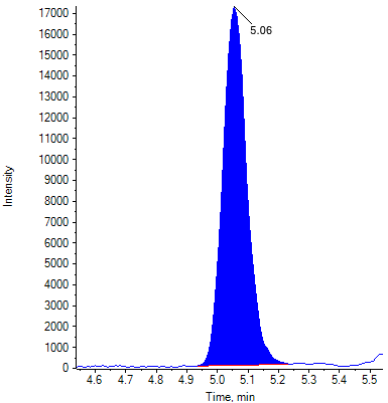
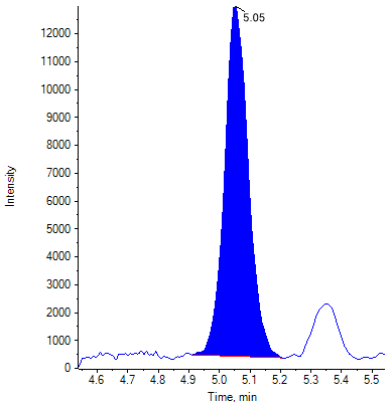
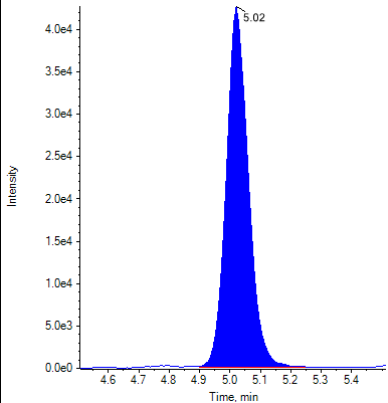
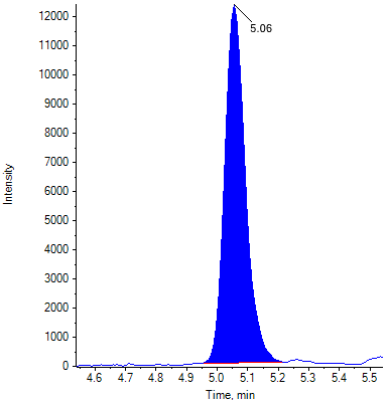
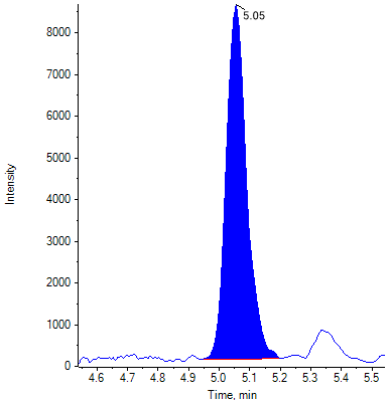
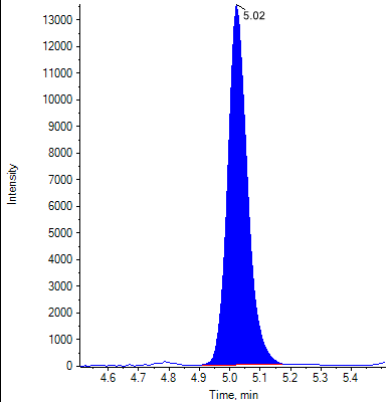
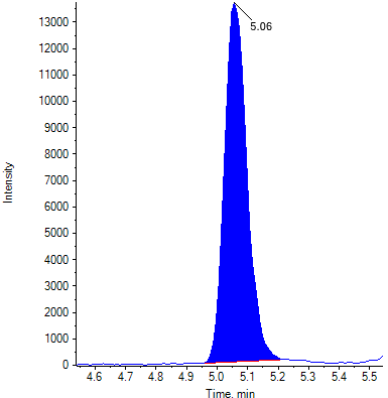
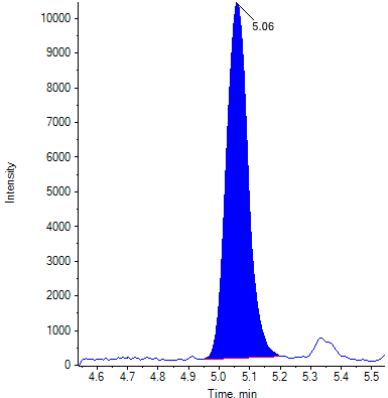
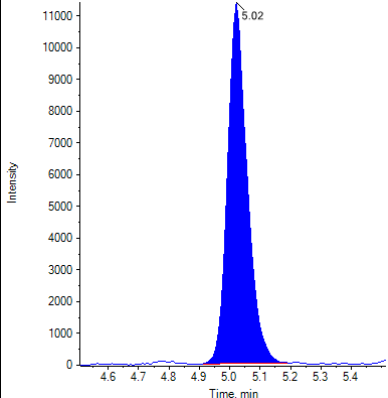
Sample Name	Area Ratio	Actual Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
Standard 1	0.1132	1.00	0.989	98.86
Standard 2	0.4402	4.00	3.839	95.98
Standard 3	0.9604	8.00	8.374	104.68
Standard 4	1.3791	12.00	12.024	100.20
Standard 5	1.9647	16.00	17.129	107.05
Standard 6	2.1387	20.00	18.646	93.23
Low A	0.2268	2.00	1.979	98.94
Low B	0.2302	2.00	2.008	100.42
Low C	0.2269	2.00	1.980	99.00
Medium A	1.1562	10.00	10.081	100.81
Medium B	1.2191	10.00	10.629	106.29
Medium C	1.2102	10.00	10.552	105.52
High A	1.9268	18.00	16.798	93.32
High B	2.0344	18.00	17.737	98.54
High C	2.0557	18.00	17.922	99.57
Negative	N/A	0.00	N/A	N/A
Standard 1 A	0.1236	1.00	1.080	107.98
Standard 1 B	0.1152	1.00	1.006	100.64
Standard 1 C	0.1244	1.00	1.086	108.62

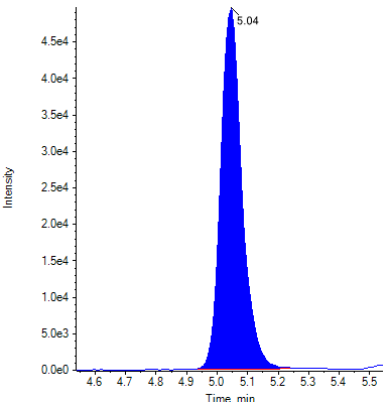
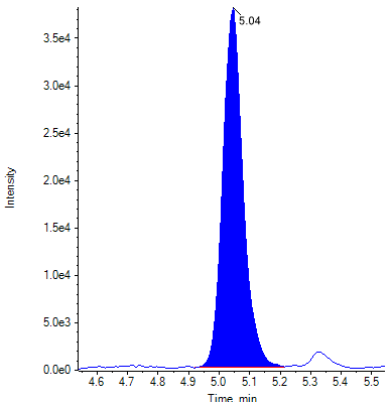
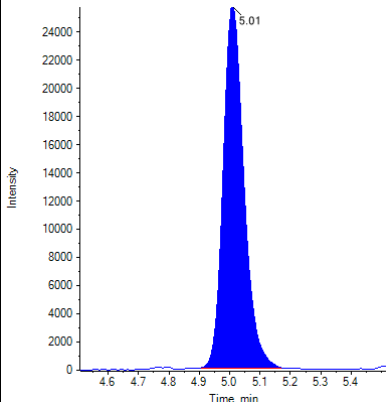
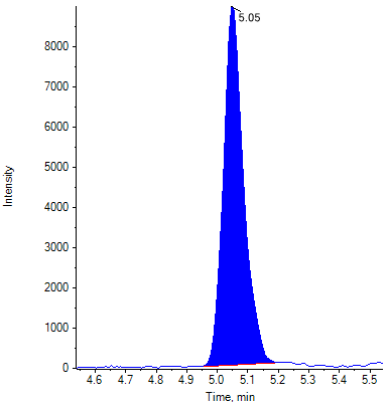
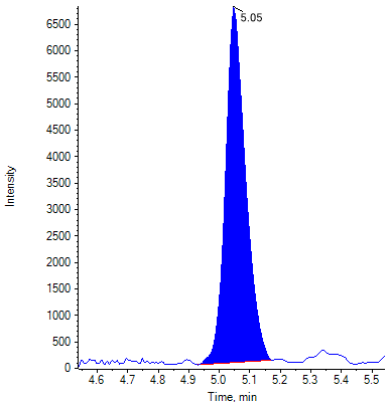
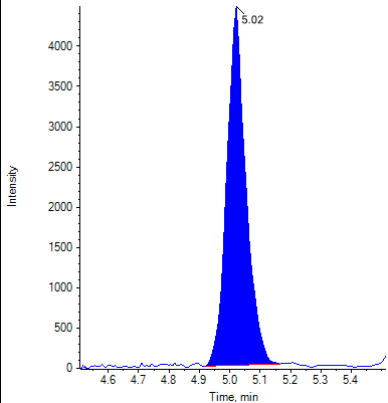
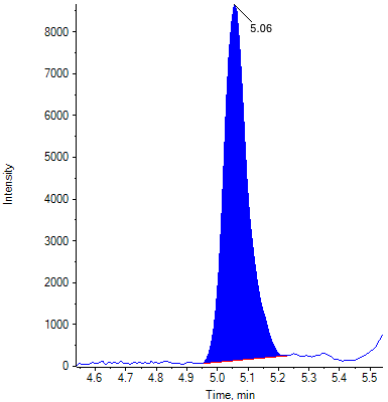
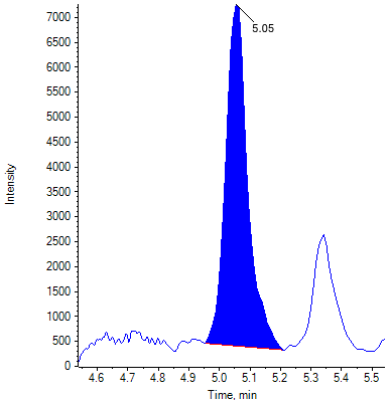
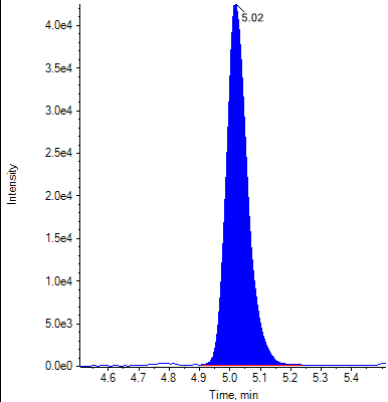
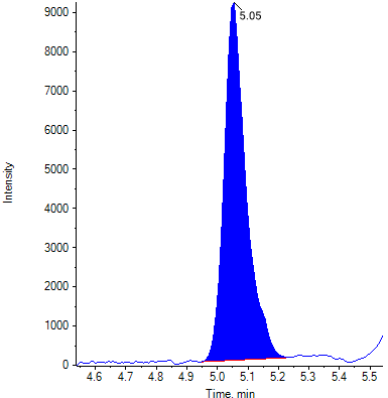
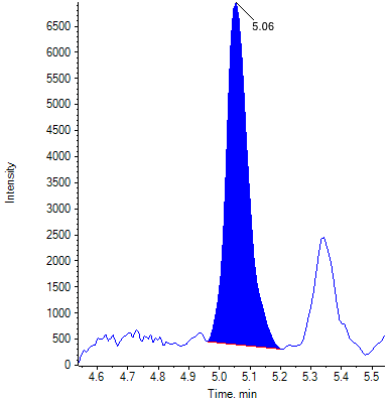
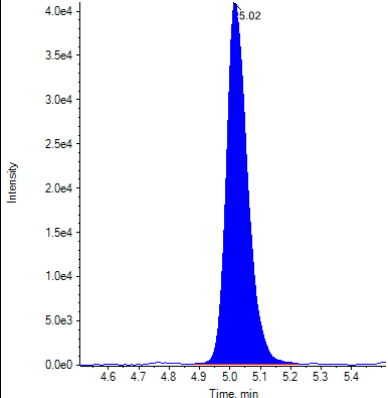
Identification Summary: THC-OH

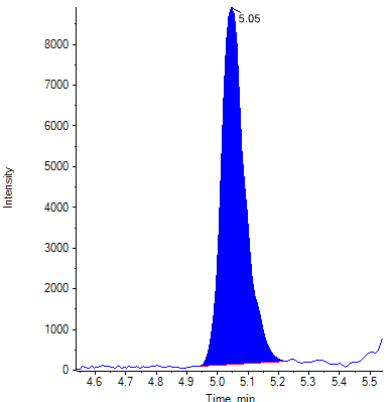
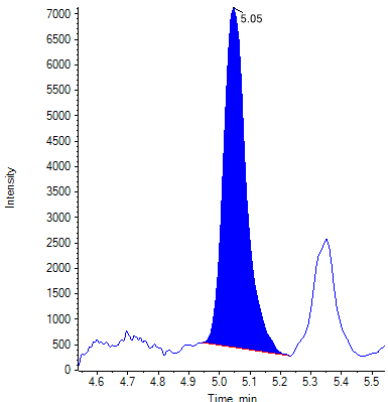
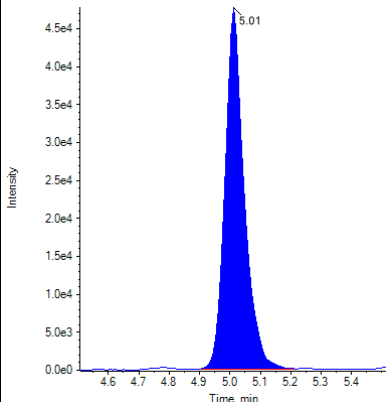
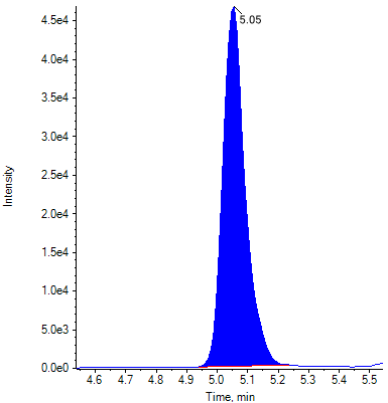
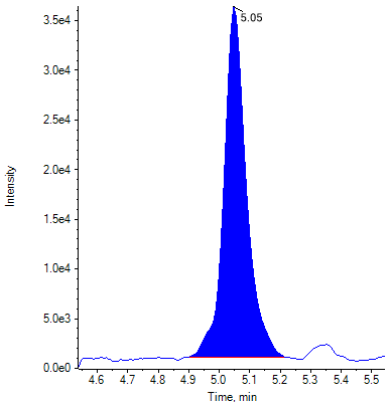
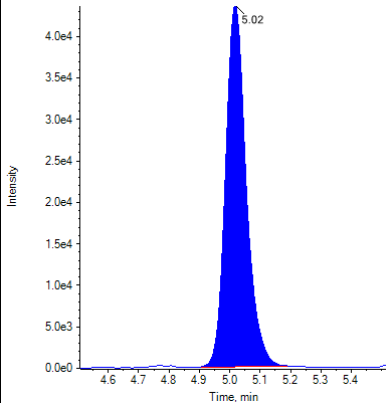
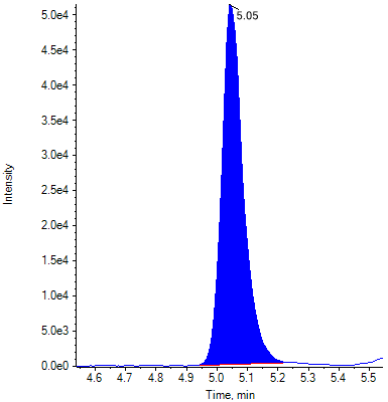
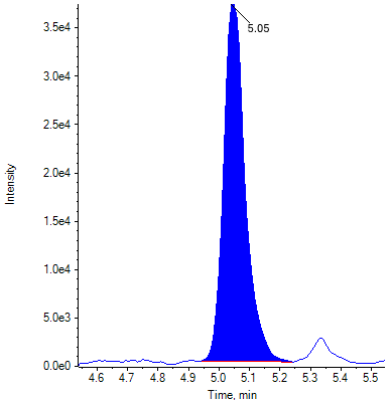
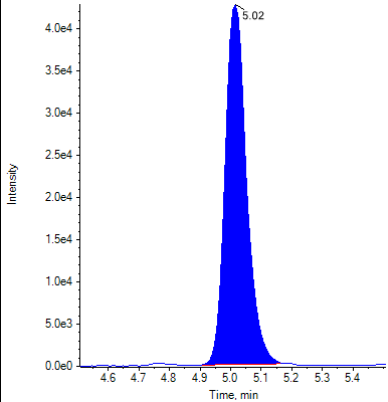
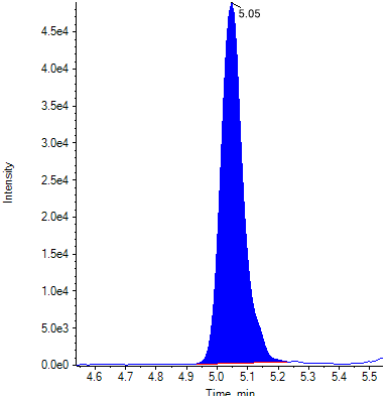
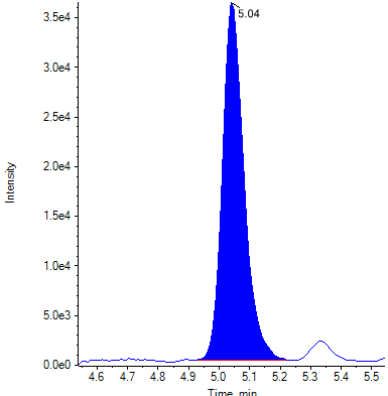
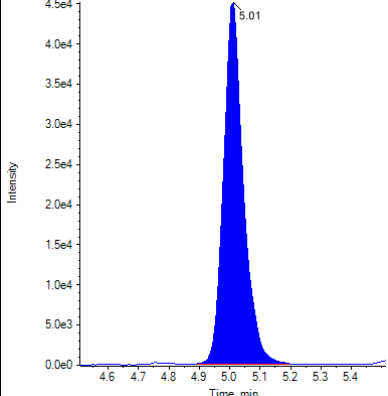
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 1	THC-OH 1	1.006 (Pass)	0.768 (Pass)
	THC-OH 2	1.006 (Pass)	
Standard 2	THC-OH 1	1.006 (Pass)	0.726 (Pass)
	THC-OH 2	1.006 (Pass)	

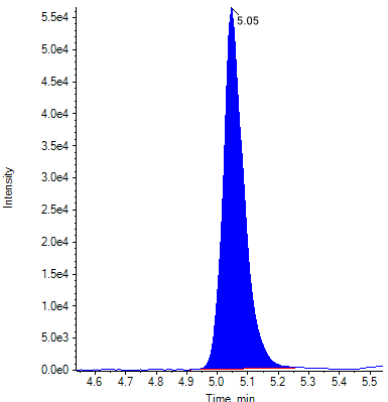
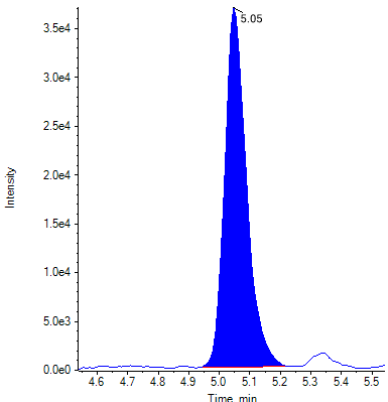
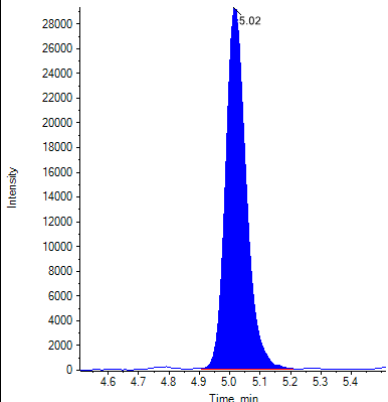
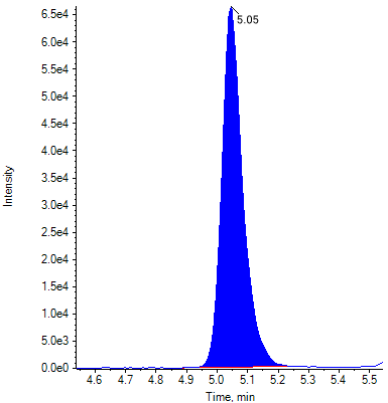
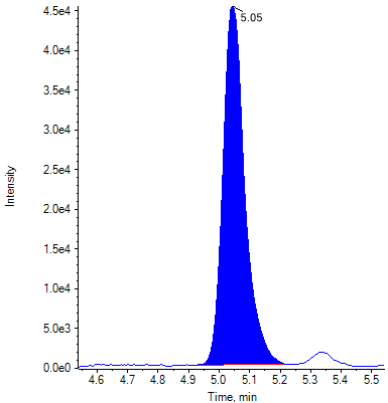
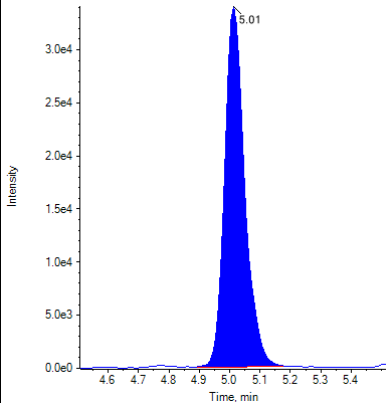
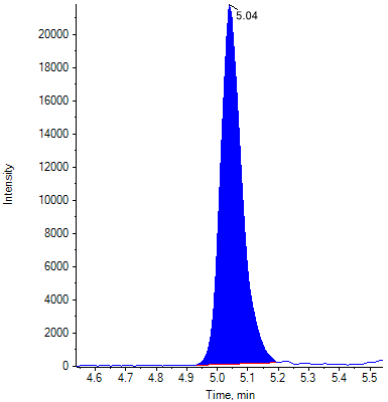
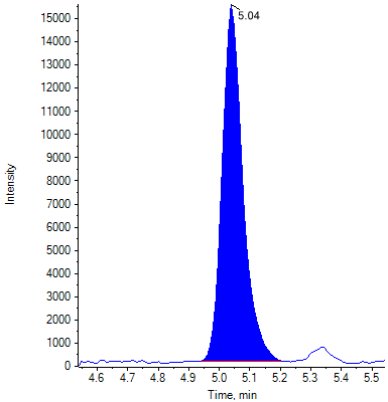
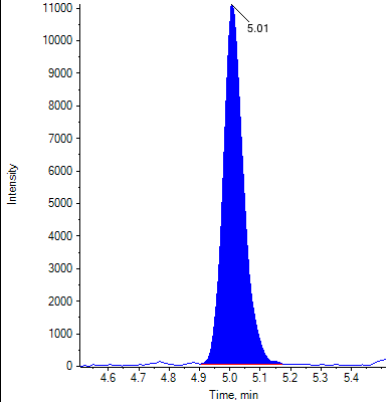
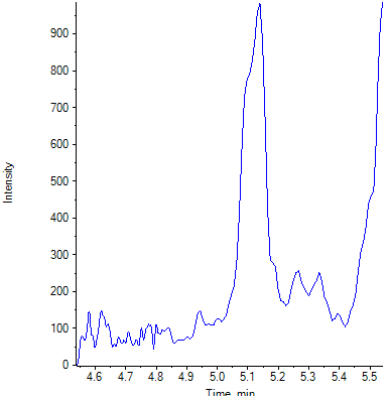
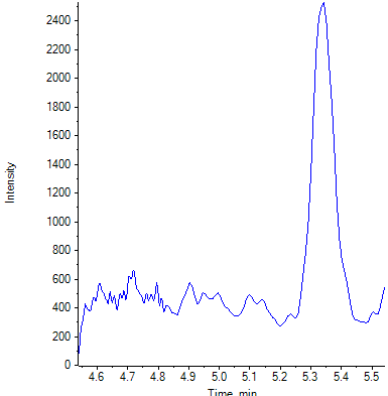
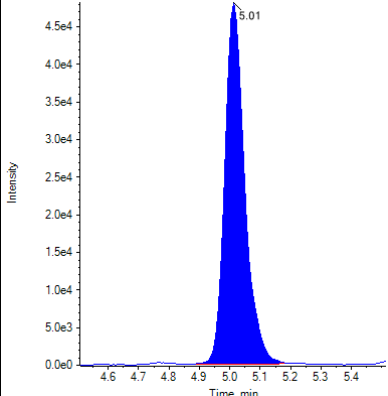
Identification Summary: THC-OH			
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 3	THC-OH 1	1.007 (Pass)	0.684 (Pass)
	THC-OH 2	1.006 (Pass)	
Standard 4	THC-OH 1	1.007 (Pass)	0.721 (Pass)
	THC-OH 2	1.007 (Pass)	
Standard 5	THC-OH 1	1.007 (Pass)	0.729 (Pass)
	THC-OH 2	1.007 (Pass)	
Standard 6	THC-OH 1	1.006 (Pass)	0.740 (Pass)
	THC-OH 2	1.006 (Pass)	
Low A	THC-OH 1	1.007 (Pass)	0.747 (Pass)
	THC-OH 2	1.007 (Pass)	
Low B	THC-OH 1	1.007 (Pass)	0.714 (Pass)
	THC-OH 2	1.007 (Pass)	
Low C	THC-OH 1	1.007 (Pass)	0.728 (Pass)
	THC-OH 2	1.007 (Pass)	
Medium A	THC-OH 1	1.007 (Pass)	0.763 (Pass)
	THC-OH 2	1.006 (Pass)	
Medium B	THC-OH 1	1.007 (Pass)	0.731 (Pass)
	THC-OH 2	1.007 (Pass)	
Medium C	THC-OH 1	1.007 (Pass)	0.722 (Pass)
	THC-OH 2	1.007 (Pass)	
High A	THC-OH 1	1.006 (Pass)	0.699 (Pass)
	THC-OH 2	1.007 (Pass)	
High B	THC-OH 1	1.007 (Pass)	0.710 (Pass)
	THC-OH 2	1.006 (Pass)	
High C	THC-OH 1	1.007 (Pass)	0.694 (Pass)
	THC-OH 2	1.006 (Pass)	
Negative	THC-OH 1	N/A ()	N/A ()
	THC-OH 2	N/A ()	
Standard 1 A	THC-OH 1	1.006 (Pass)	0.672 (Pass)
	THC-OH 2	1.006 (Pass)	
Standard 1 B	THC-OH 1	1.008 (Pass)	0.575 (Fail)
	THC-OH 2	1.006 (Pass)	
Standard 1 C	THC-OH 1	1.007 (Pass)	0.658 (Pass)
	THC-OH 2	1.007 (Pass)	

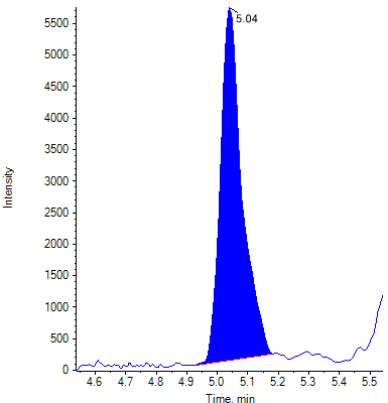
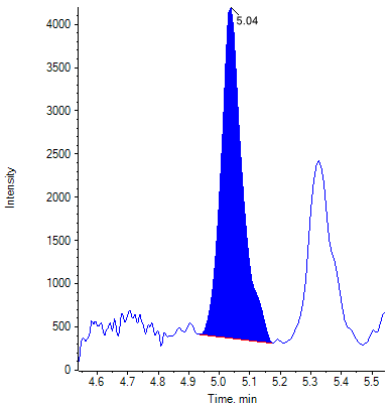
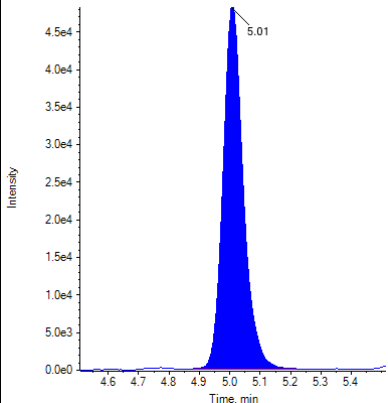
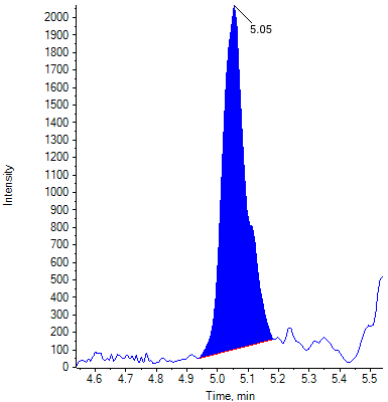
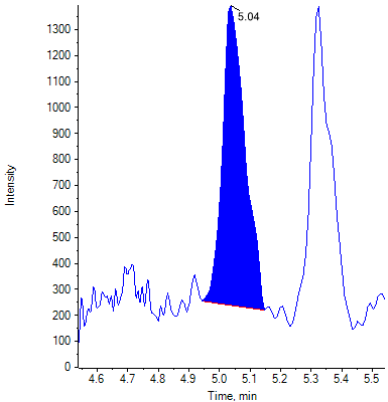
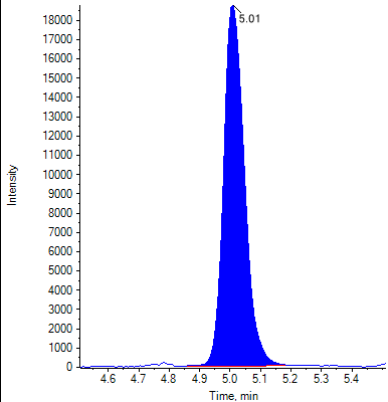
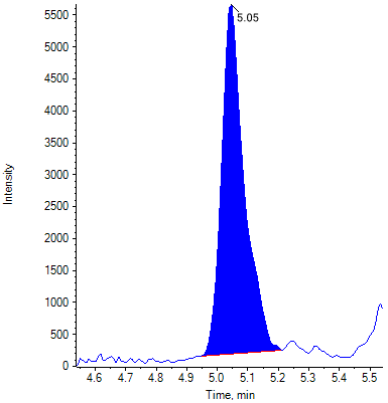
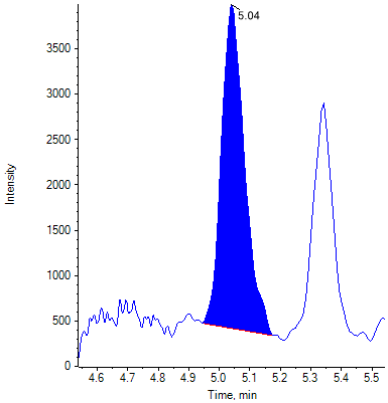
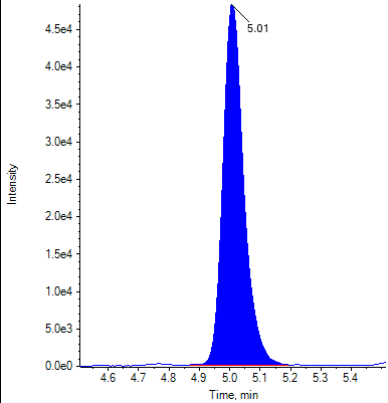
Peak Review			
Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3

Peak Review			
Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3
Standard 1			
Standard 2			
Standard 3			
Standard 4			

Peak Review			
Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3
Standard 5			
Standard 6			
Low A			
Low B			

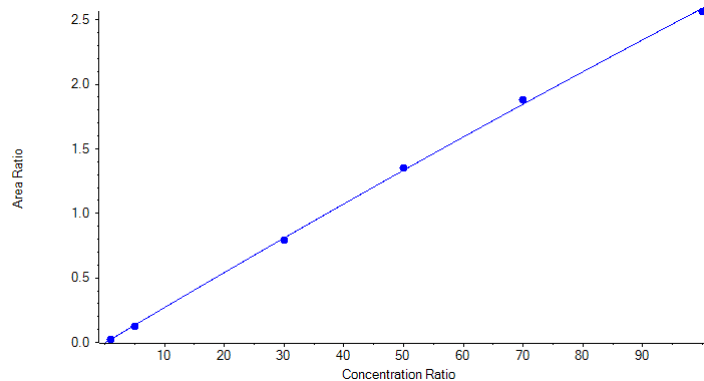
Peak Review			
Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3
Low C			
Medium A			
Medium B			
Medium C			

Peak Review			
Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3
High A			
High B			
High C			
Negative			

Peak Review			
Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3
Standard 1 A			
Standard 1 B			
Standard 1 C			

Calibration Summary: Δ9-THC

$$y = -1.68212e-5 x^2 + 0.02761 x - 0.00461 \quad (r = 0.99984) \quad (\text{weighting: } 1/x)$$



Analyte Transition Mass

Internal Standard	Δ9-THC-D3
I.S. Transition Mass	318.1 / 123.0
Δ9-THC 1	315.1 / 193.1
Δ9-THC 2	315.1 / 123.0

Relative Retention time: Expected (Acceptance Range)

Δ9-THC 1	1.004 (0.979-1.029)
Δ9-THC 2	1.004 (0.979-1.029)

Ion Ratio: Expected (Acceptance Range)

Δ9-THC 2	0.713 (0.570-0.856)
Δ9-THC comment	

Quantitative Summary: Δ9-THC

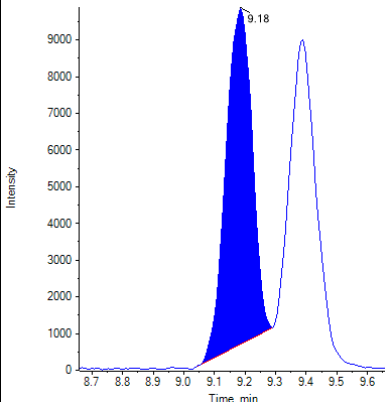
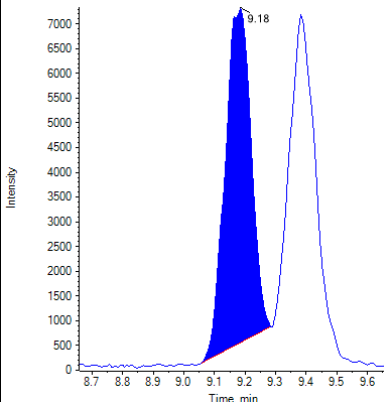
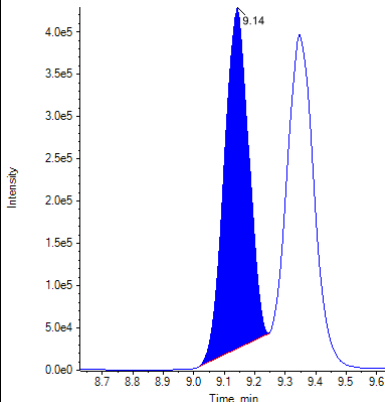
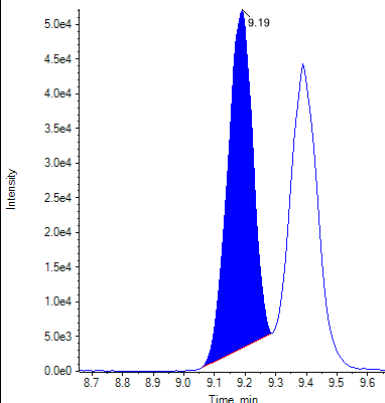
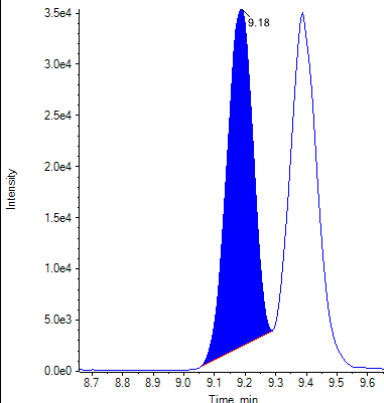
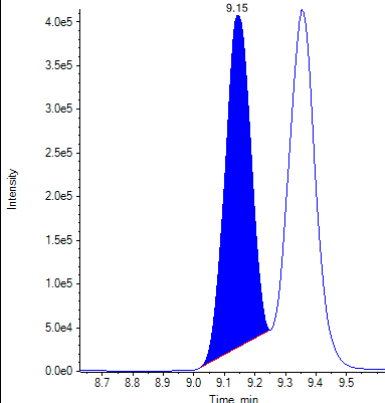
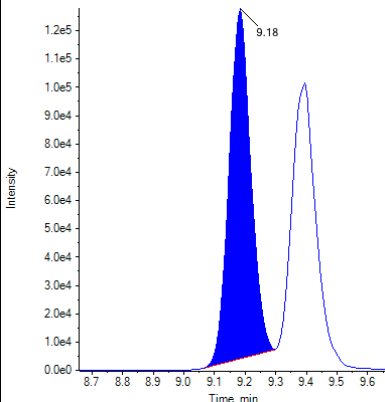
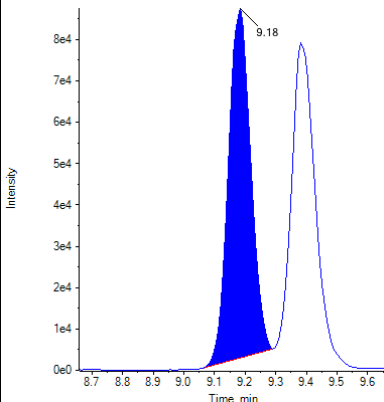
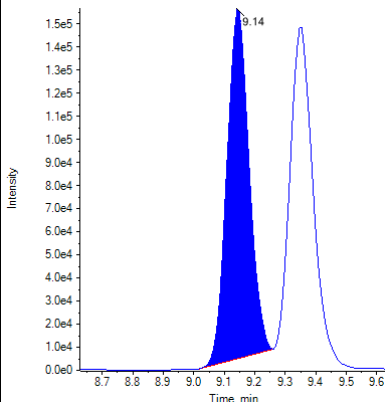
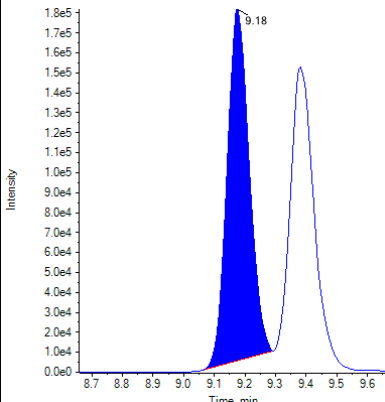
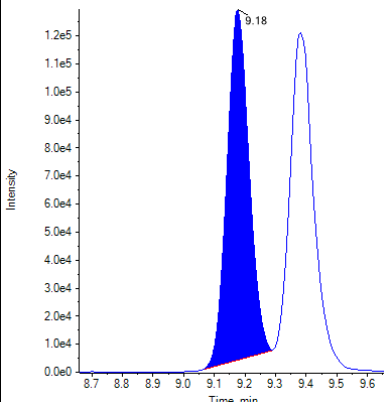
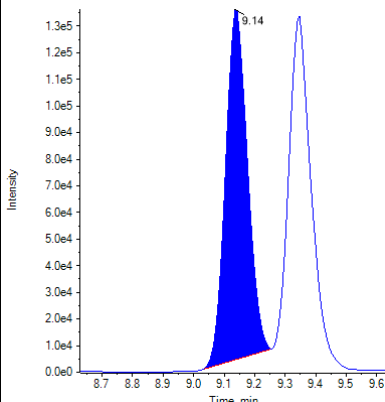
Sample Name	Area Ratio	Actual Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
Standard 1	0.0246	1.00	1.060	105.97
Standard 2	0.1249	5.00	4.705	94.10
Standard 3	0.7916	30.00	29.361	97.87
Standard 4	1.3509	50.00	50.657	101.31
Standard 5	1.8772	70.00	71.247	101.78
Standard 6	2.5633	100.00	98.967	98.97
Low A	0.0743	3.00	2.862	95.40
Low B	0.0756	3.00	2.908	96.95
Low C	0.0786	3.00	3.020	100.67
Medium A	1.0941	40.00	40.806	102.01
Medium B	1.1354	40.00	42.381	105.95
Medium C	1.1296	40.00	42.160	105.40
High A	2.1981	80.00	84.083	105.10
High B	2.2517	80.00	86.249	107.81
High C	2.2684	80.00	86.925	108.66
Negative	N/A	0.00	N/A	N/A
Standard 1 A	0.0228	1.00	0.995	99.46
Standard 1 B	0.0238	1.00	1.030	103.02
Standard 1 C	0.0251	1.00	1.077	107.72

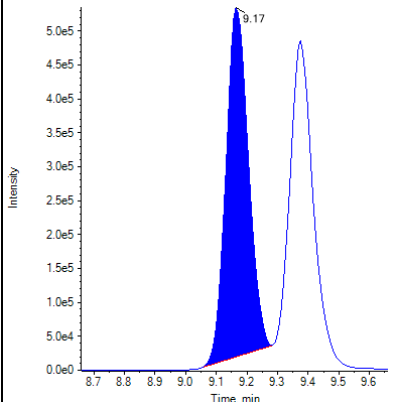
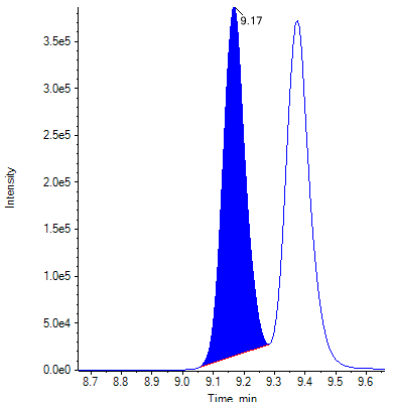
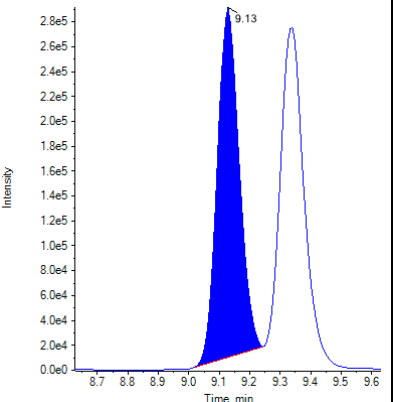
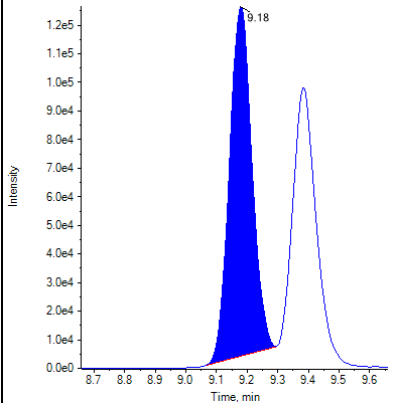
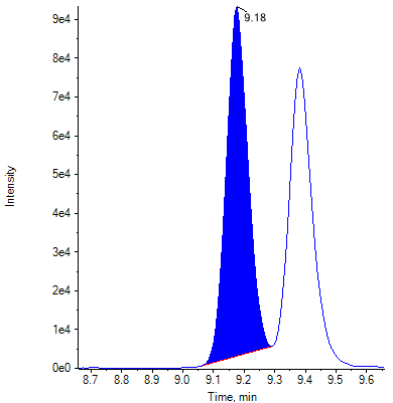
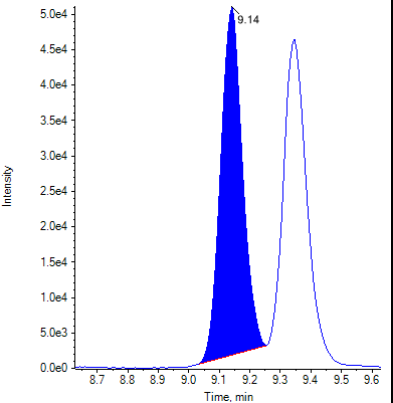
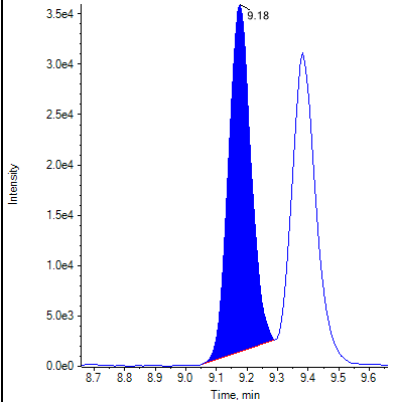
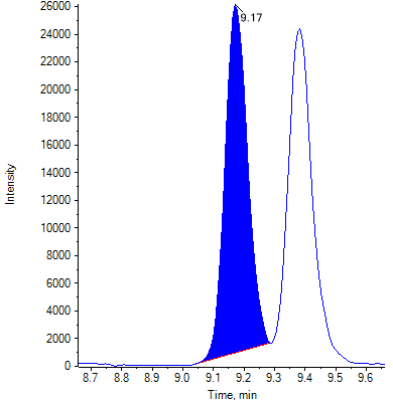
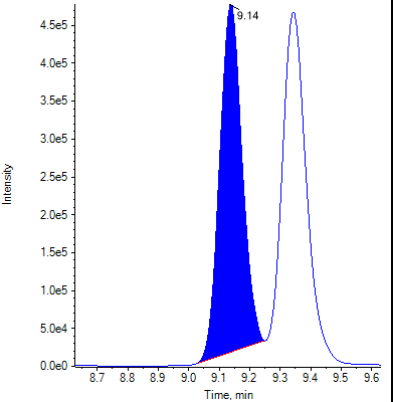
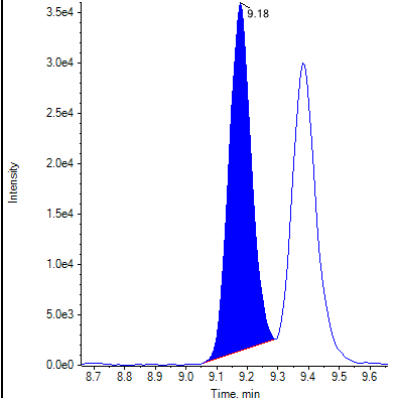
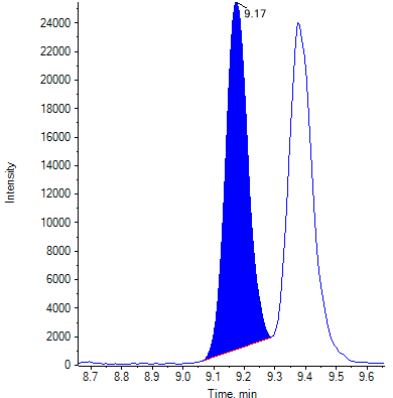
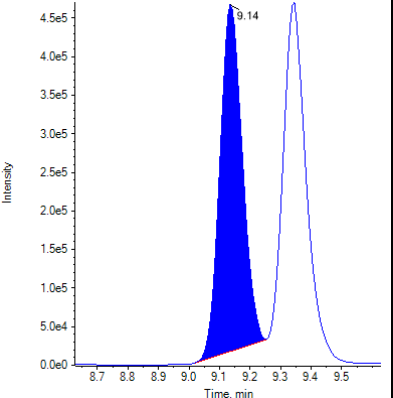
Identification Summary: Δ9-THC

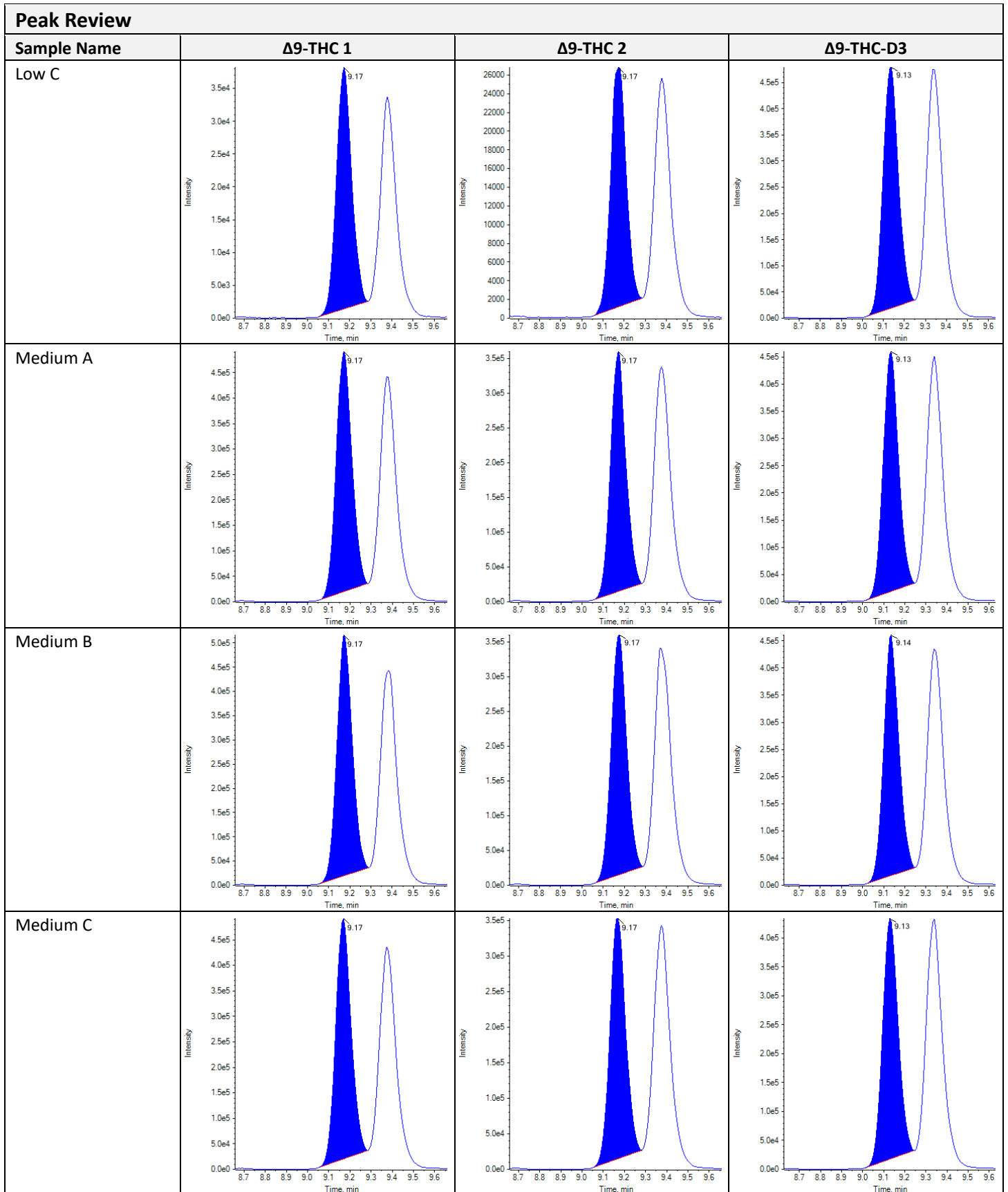
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 1	Δ9-THC 1	1.005 (Pass)	0.733 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Standard 2	Δ9-THC 1	1.004 (Pass)	0.708 (Pass)
	Δ9-THC 2	1.004 (Pass)	

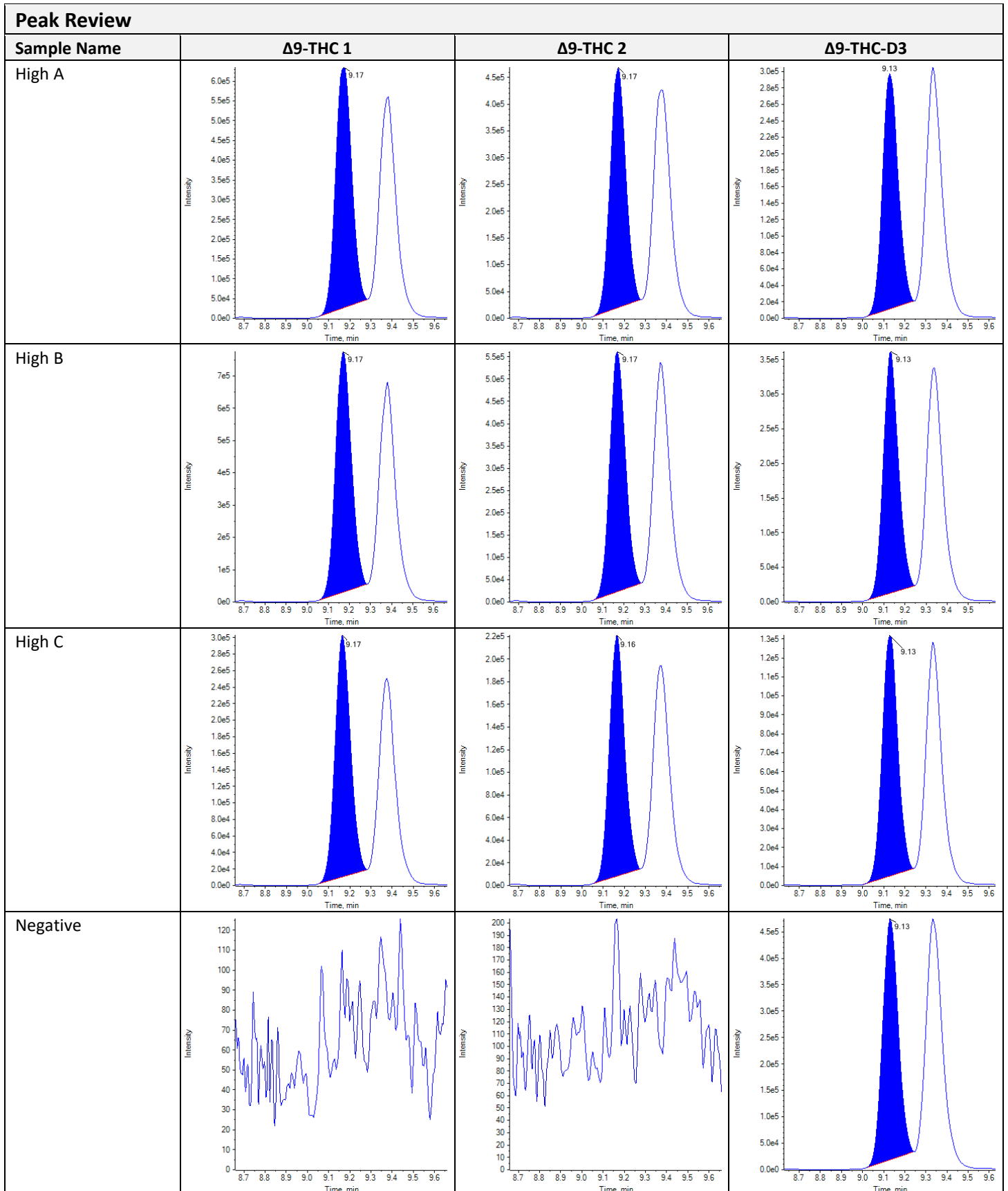
Identification Summary: Δ9-THC			
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 3	Δ9-THC 1	1.004 (Pass)	0.709 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Standard 4	Δ9-THC 1	1.004 (Pass)	0.706 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Standard 5	Δ9-THC 1	1.004 (Pass)	0.715 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Standard 6	Δ9-THC 1	1.004 (Pass)	0.708 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Low A	Δ9-THC 1	1.004 (Pass)	0.744 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Low B	Δ9-THC 1	1.004 (Pass)	0.711 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Low C	Δ9-THC 1	1.004 (Pass)	0.717 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Medium A	Δ9-THC 1	1.004 (Pass)	0.713 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Medium B	Δ9-THC 1	1.004 (Pass)	0.704 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Medium C	Δ9-THC 1	1.004 (Pass)	0.727 (Pass)
	Δ9-THC 2	1.004 (Pass)	
High A	Δ9-THC 1	1.004 (Pass)	0.712 (Pass)
	Δ9-THC 2	1.004 (Pass)	
High B	Δ9-THC 1	1.004 (Pass)	0.710 (Pass)
	Δ9-THC 2	1.004 (Pass)	
High C	Δ9-THC 1	1.004 (Pass)	0.722 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Negative	Δ9-THC 1	N/A ()	N/A ()
	Δ9-THC 2	N/A ()	
Standard 1 A	Δ9-THC 1	1.004 (Pass)	0.710 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Standard 1 B	Δ9-THC 1	1.004 (Pass)	0.661 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Standard 1 C	Δ9-THC 1	1.004 (Pass)	0.733 (Pass)
	Δ9-THC 2	1.004 (Pass)	

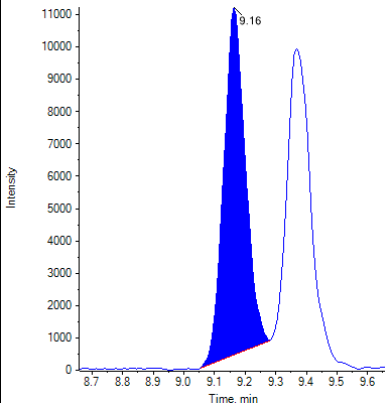
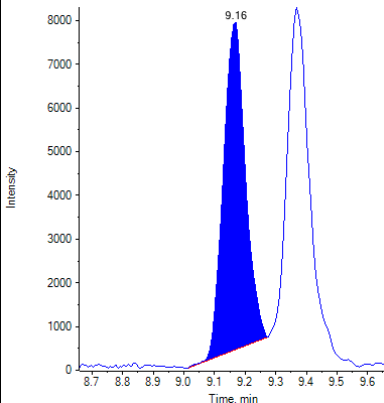
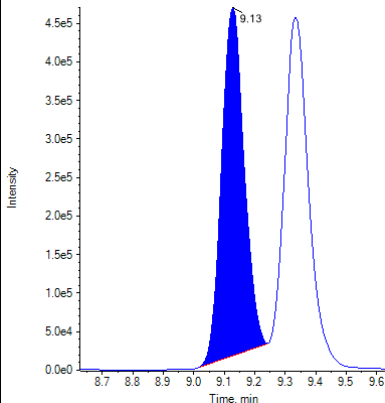
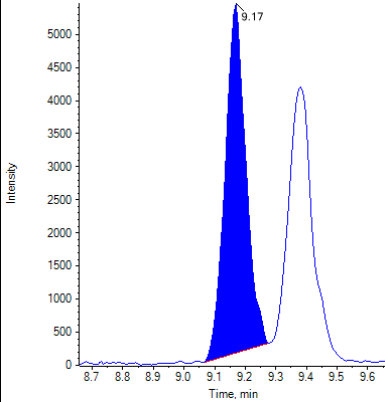
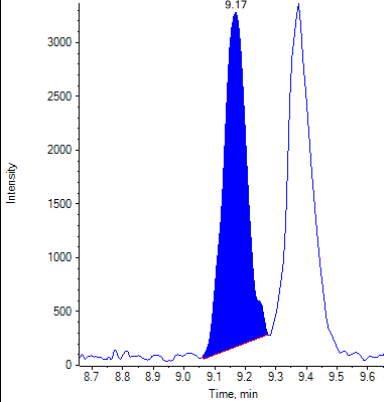
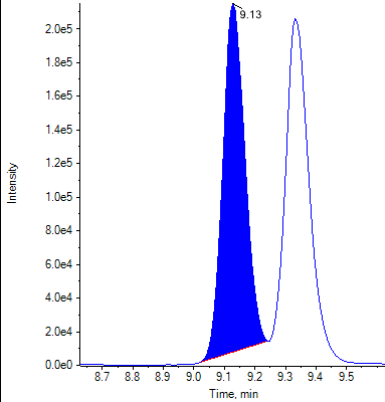
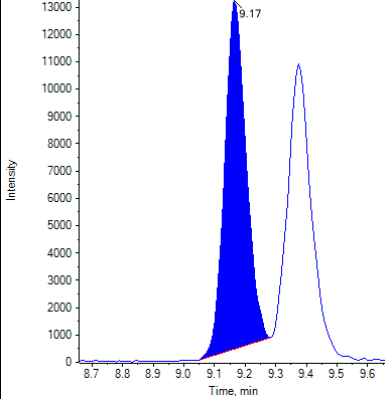
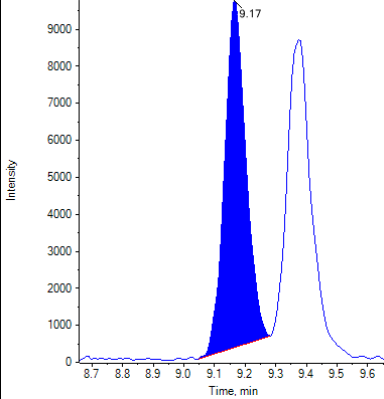
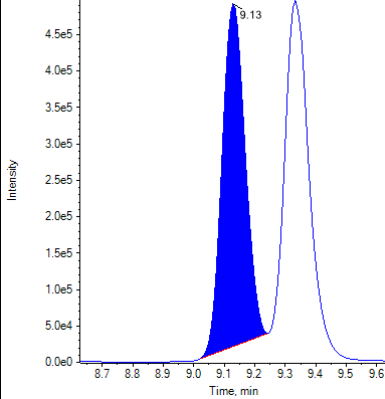
Peak Review			
Sample Name	Δ9-THC 1	Δ9-THC 2	Δ9-THC-D3

Peak Review			
Sample Name	$\Delta 9$ -THC 1	$\Delta 9$ -THC 2	$\Delta 9$ -THC-D3
Standard 1			
Standard 2			
Standard 3			
Standard 4			

Peak Review			
Sample Name	$\Delta 9$ -THC 1	$\Delta 9$ -THC 2	$\Delta 9$ -THC-D3
Standard 5			
Standard 6			
Low A			
Low B			

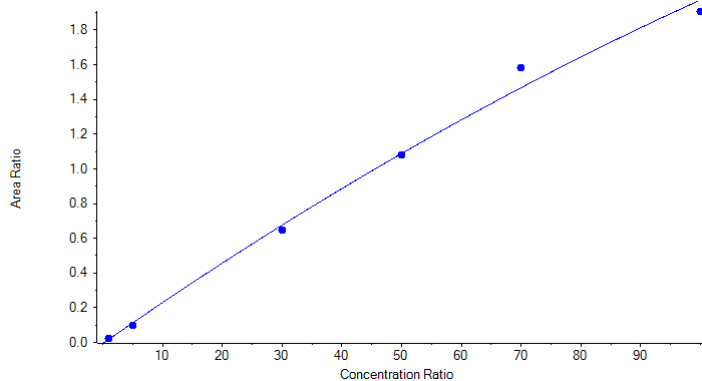




Peak Review			
Sample Name	$\Delta 9$ -THC 1	$\Delta 9$ -THC 2	$\Delta 9$ -THC-D3
Standard 1 A			
Standard 1 B			
Standard 1 C			

Calibration Summary: Δ8-THC

$$y = -4.19788e-5 x^2 + 0.02399 x - 0.00638 \quad (r = 0.99848) \quad (\text{weighting: } 1/x)$$



Analyte Transition Mass

Internal Standard	Δ8-THC-D3
I.S. Transition Mass	318.1 / 123.0
Δ8-THC 1	315.1 / 193.1
Δ8-THC 2	315.1 / 123.1
Relative Retention time: Expected (Acceptance Range)	
Δ8-THC 1	1.004 (0.979-1.029)
Δ8-THC 2	1.004 (0.979-1.029)
Ion Ratio: Expected (Acceptance Range)	
Δ8-THC 2	0.770 (0.616-0.924)
Δ8-THC comment	

Quantitative Summary: Δ8-THC

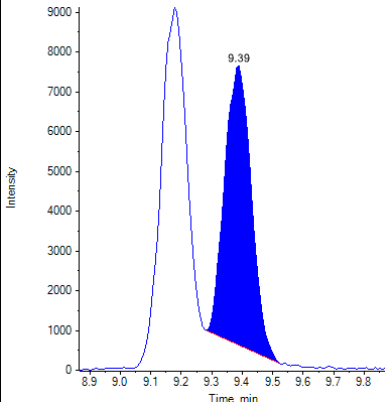
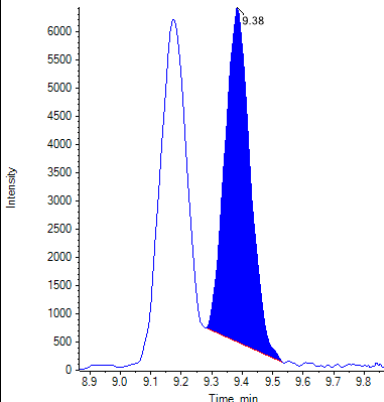
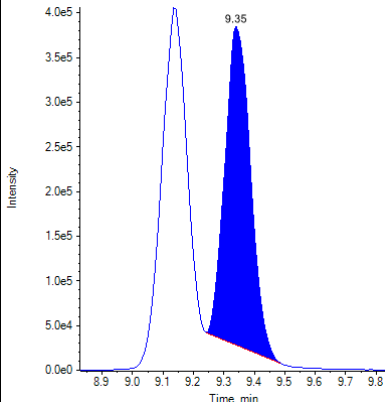
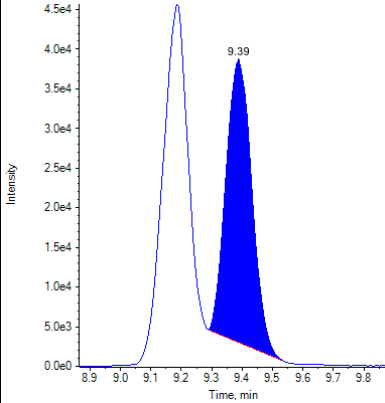
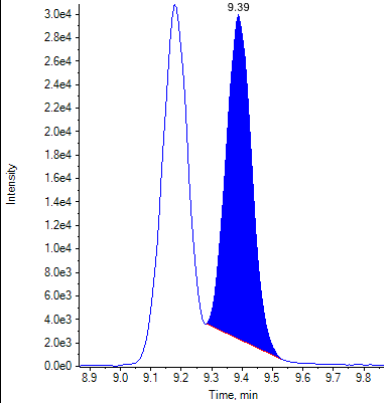
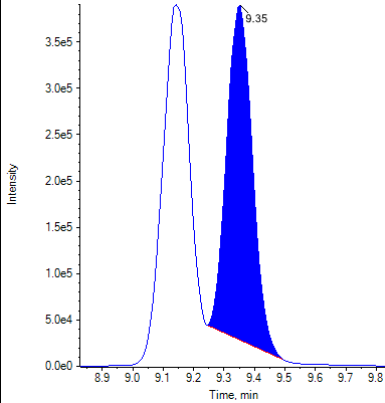
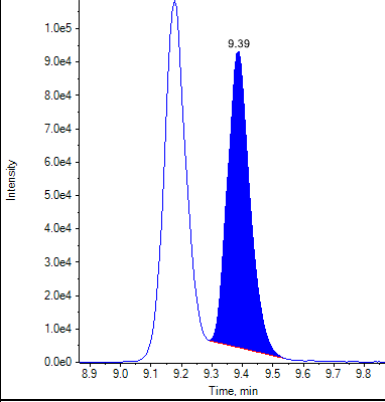
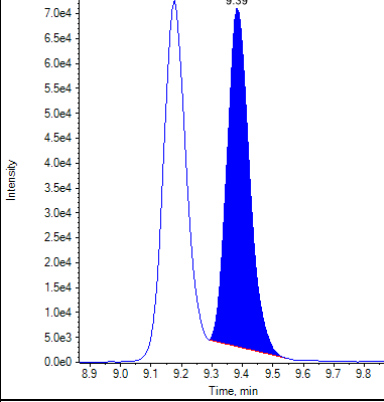
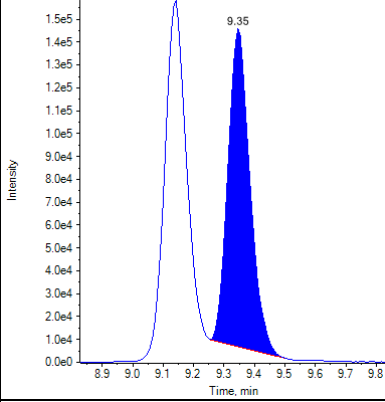
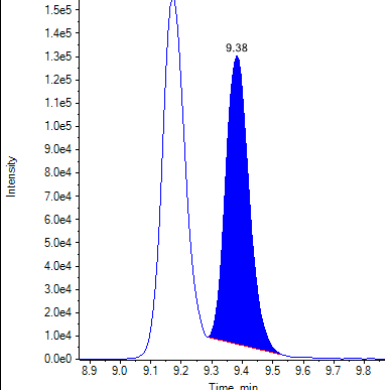
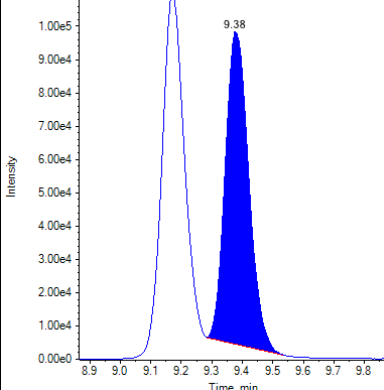
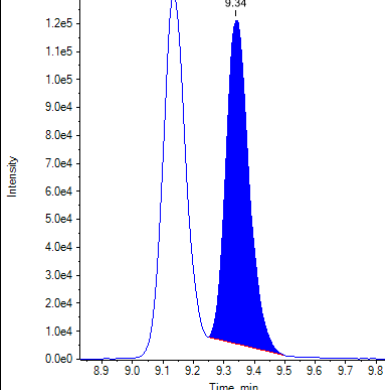
Sample Name	Area Ratio	Actual Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
Standard 1	0.0203	1.00	1.114	111.43
Standard 2	0.0999	5.00	4.463	89.27
Standard 3	0.6446	30.00	28.560	95.20
Standard 4	1.0819	50.00	49.680	99.36
Standard 5	1.5813	70.00	76.388	109.13
Standard 6	1.9062	100.00	95.770	95.77
Low A	0.0615	3.00	2.844	94.78
Low B	0.0612	3.00	2.832	94.39
Low C	0.0647	3.00	2.977	99.23
Medium A	0.8837	40.00	39.886	99.71
Medium B	0.9179	40.00	41.544	103.86
Medium C	0.9338	40.00	42.322	105.80
High A	1.7895	80.00	88.589	110.74
High B	1.8198	80.00	90.425	113.03
High C	1.8936	80.00	94.982	118.73
Negative	N/A	0.00	N/A	N/A
Standard 1 A	0.0196	1.00	1.084	108.43
Standard 1 B	0.0174	1.00	0.992	99.18
Standard 1 C	0.0204	1.00	1.118	111.79

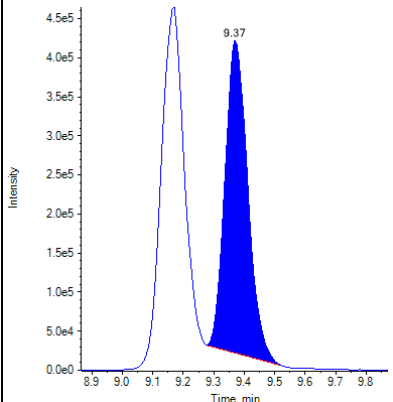
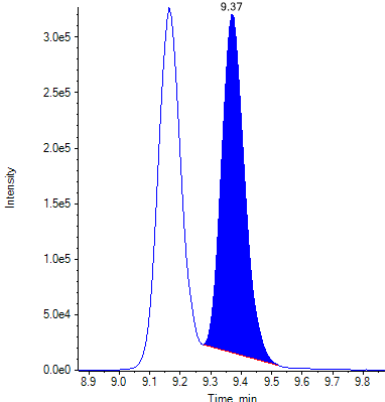
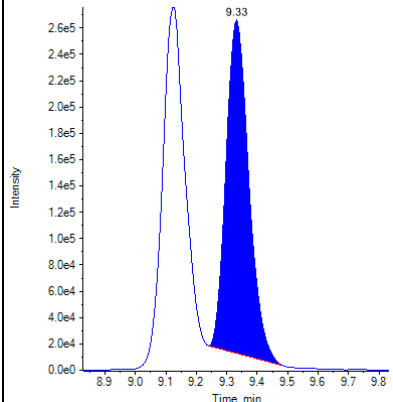
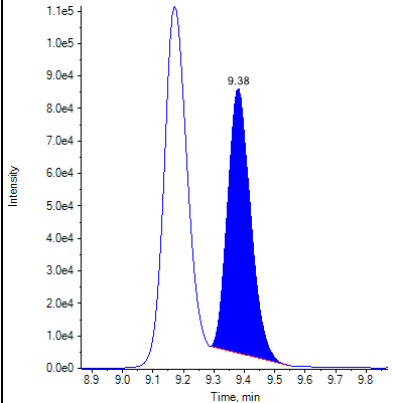
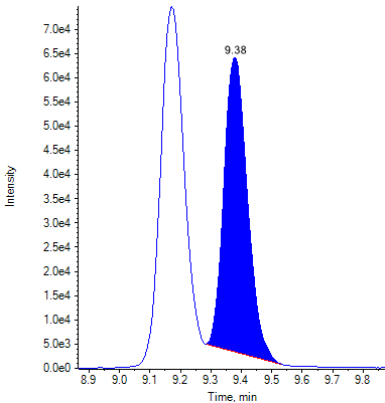
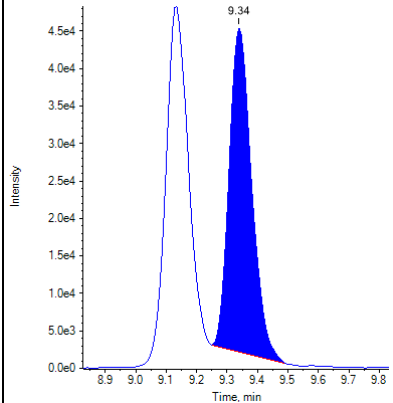
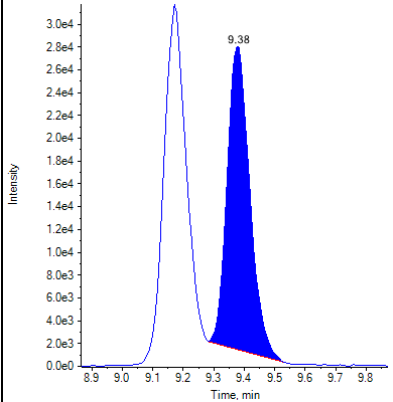
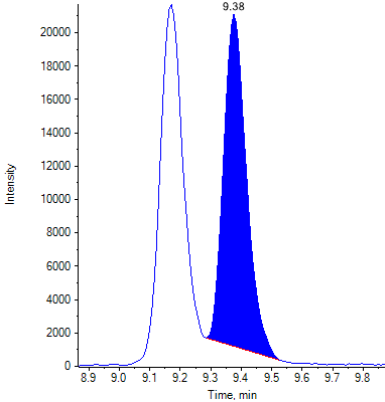
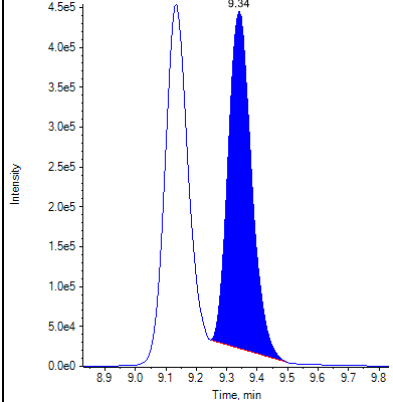
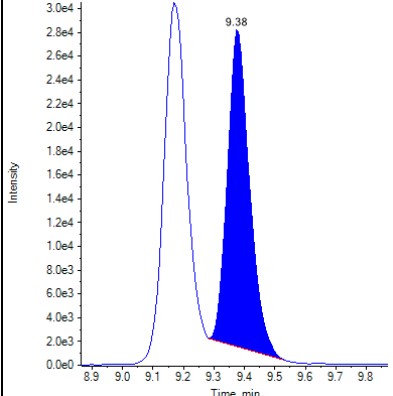
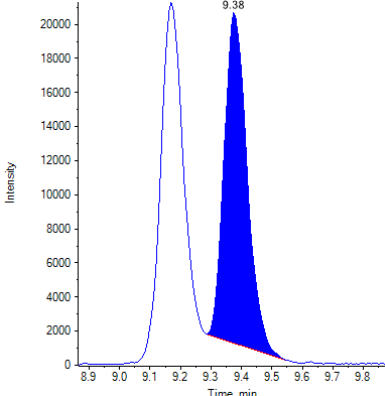
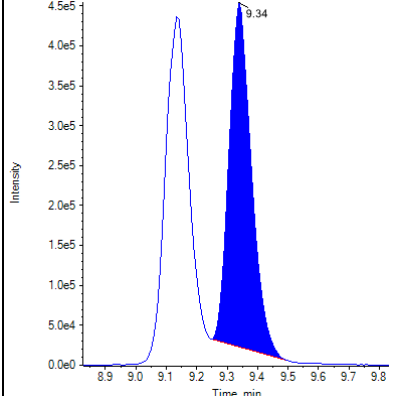
Identification Summary: Δ8-THC

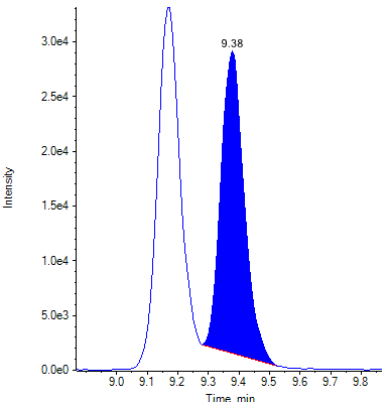
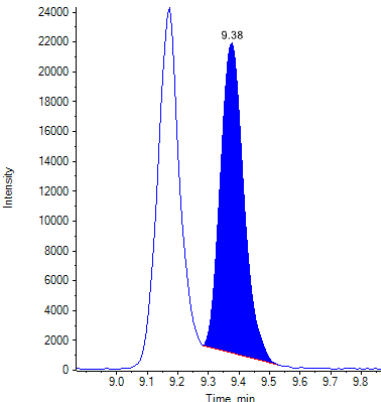
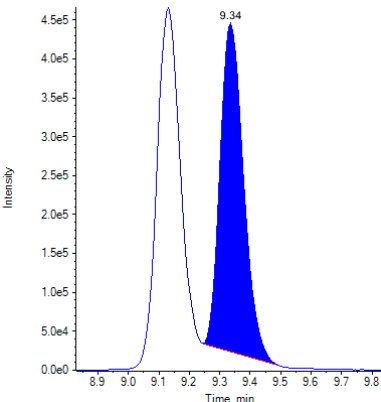
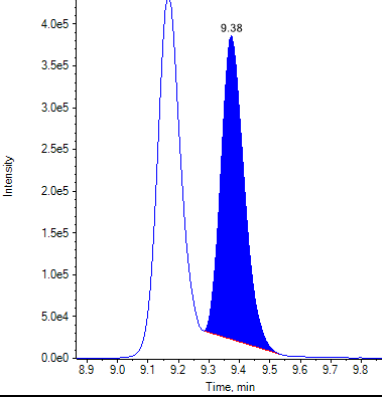
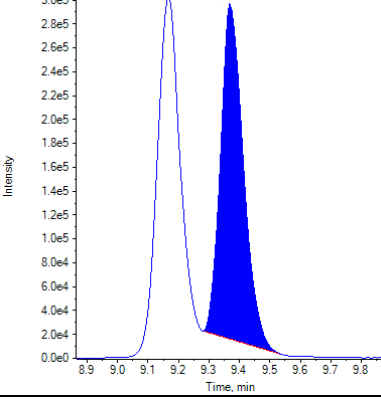
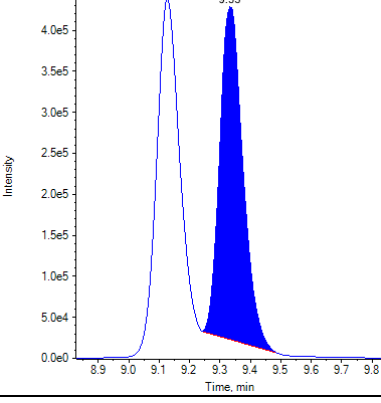
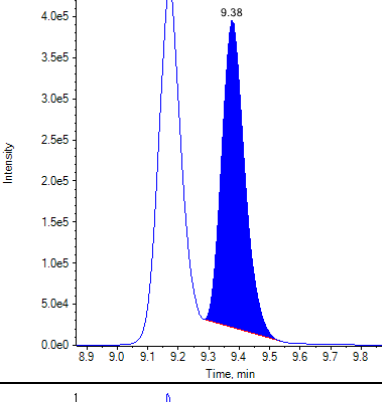
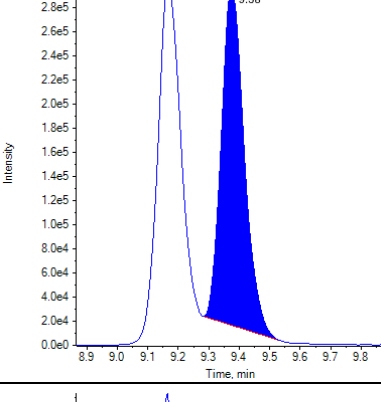
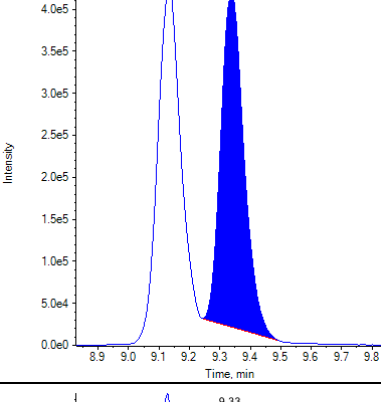
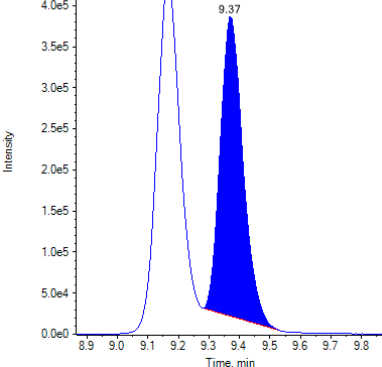
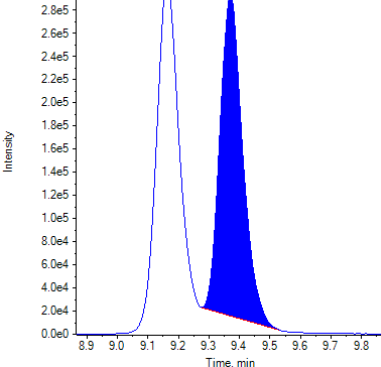
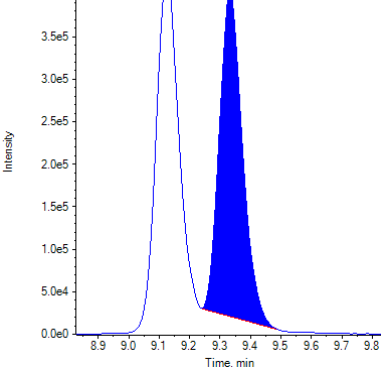
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 1	Δ8-THC 1	1.004 (Pass)	0.796 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Standard 2	Δ8-THC 1	1.004 (Pass)	0.759 (Pass)
	Δ8-THC 2	1.004 (Pass)	

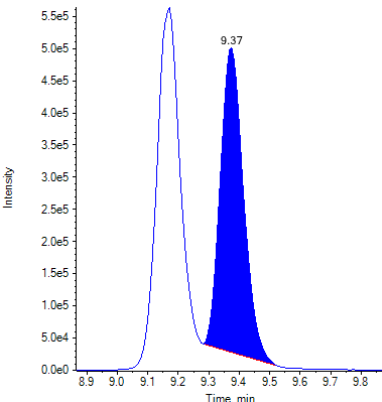
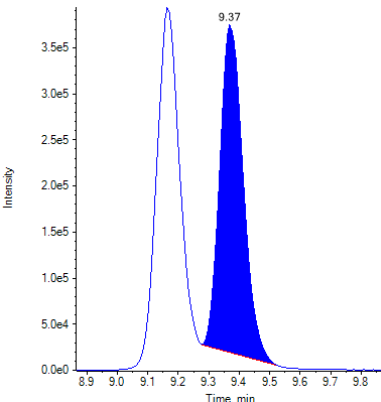
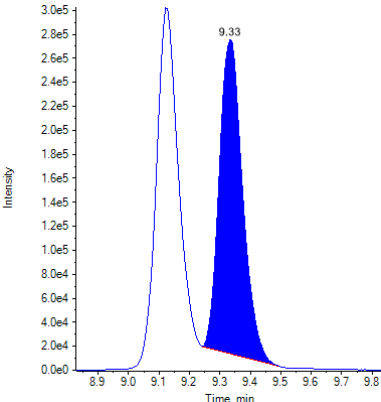
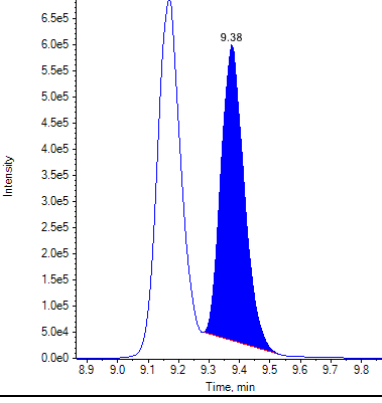
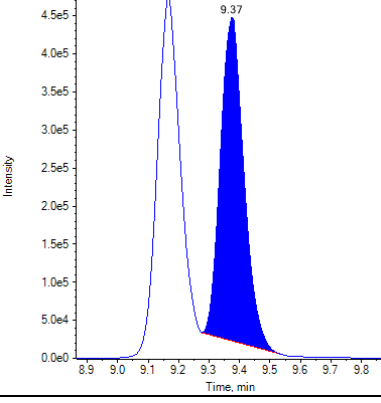
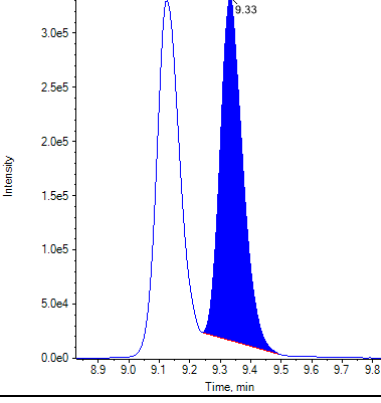
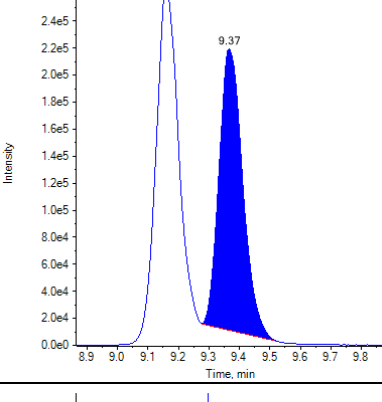
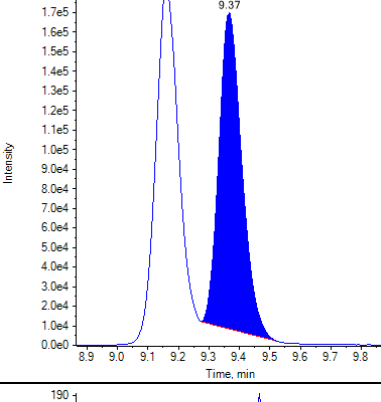
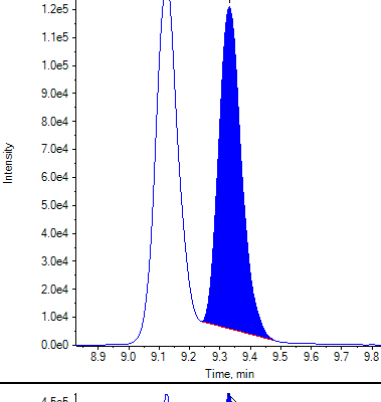
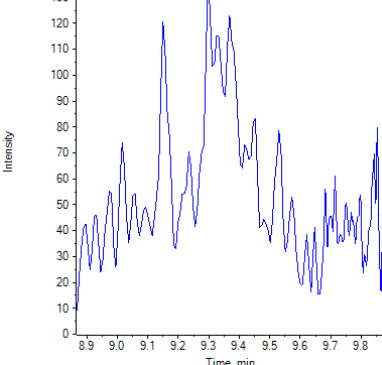
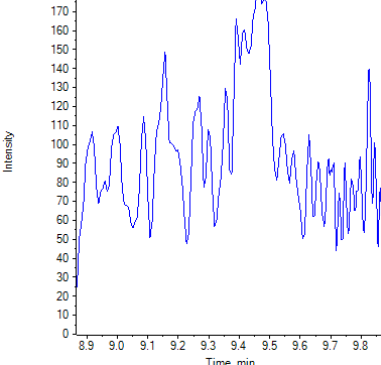
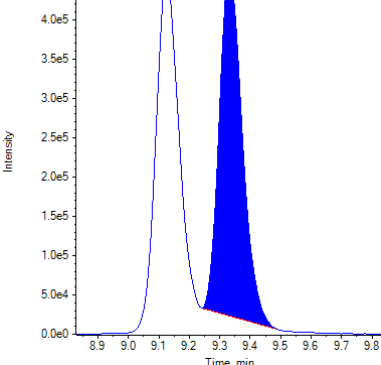
Identification Summary: Δ8-THC			
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 3	Δ8-THC 1	1.004 (Pass)	0.769 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Standard 4	Δ8-THC 1	1.004 (Pass)	0.766 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Standard 5	Δ8-THC 1	1.004 (Pass)	0.761 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Standard 6	Δ8-THC 1	1.004 (Pass)	0.768 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Low A	Δ8-THC 1	1.004 (Pass)	0.755 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Low B	Δ8-THC 1	1.004 (Pass)	0.760 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Low C	Δ8-THC 1	1.004 (Pass)	0.753 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Medium A	Δ8-THC 1	1.004 (Pass)	0.766 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Medium B	Δ8-THC 1	1.004 (Pass)	0.756 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Medium C	Δ8-THC 1	1.004 (Pass)	0.765 (Pass)
	Δ8-THC 2	1.004 (Pass)	
High A	Δ8-THC 1	1.004 (Pass)	0.762 (Pass)
	Δ8-THC 2	1.004 (Pass)	
High B	Δ8-THC 1	1.004 (Pass)	0.768 (Pass)
	Δ8-THC 2	1.004 (Pass)	
High C	Δ8-THC 1	1.004 (Pass)	0.750 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Negative	Δ8-THC 1	N/A ()	N/A ()
	Δ8-THC 2	N/A ()	
Standard 1 A	Δ8-THC 1	1.004 (Pass)	0.784 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Standard 1 B	Δ8-THC 1	1.004 (Pass)	0.889 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Standard 1 C	Δ8-THC 1	1.004 (Pass)	0.770 (Pass)
	Δ8-THC 2	1.004 (Pass)	

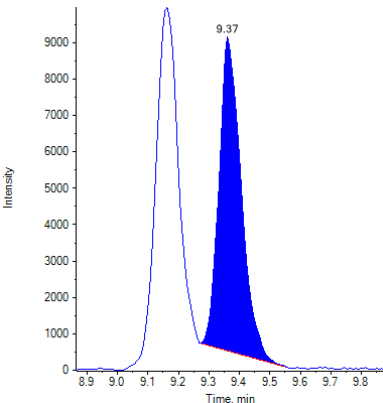
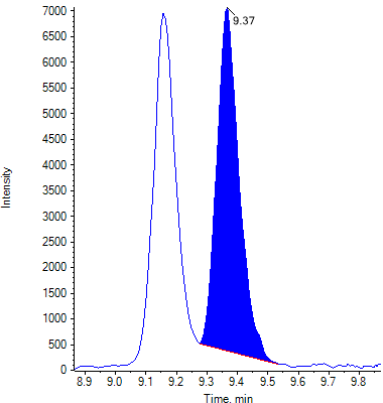
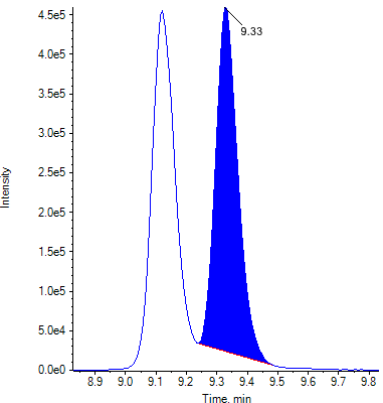
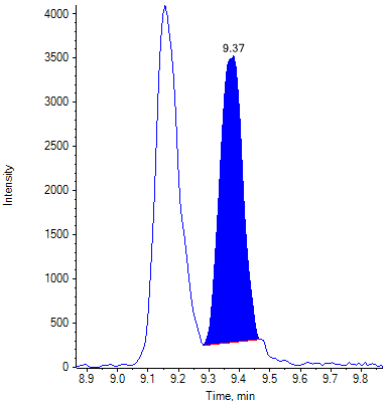
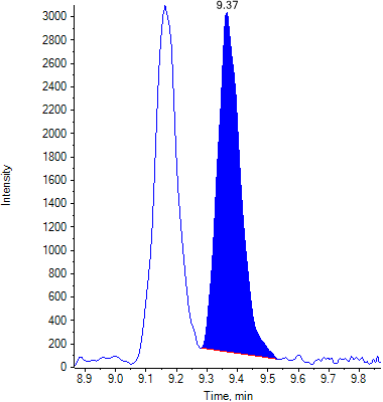
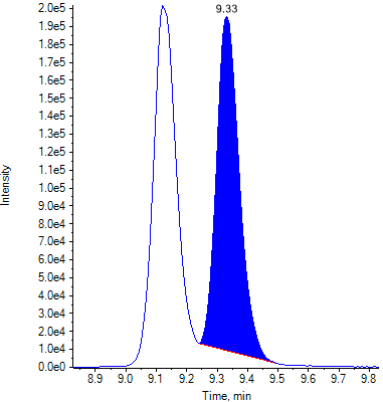
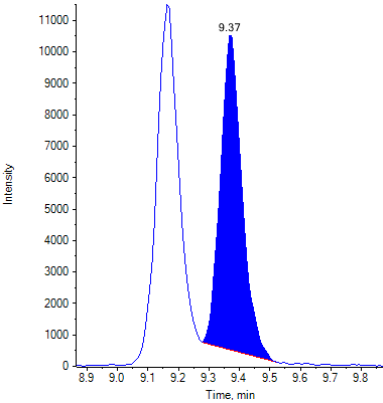
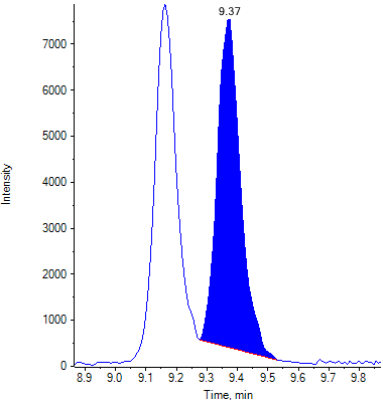
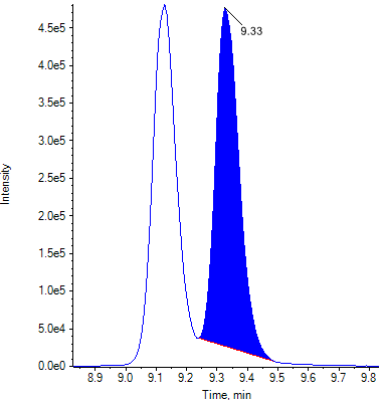
Peak Review			
Sample Name	Δ8-THC 1	Δ8-THC 2	Δ8-THC-D3

Peak Review			
Sample Name	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2	$\Delta 8$ -THC-D3
Standard 1			
Standard 2			
Standard 3			
Standard 4			

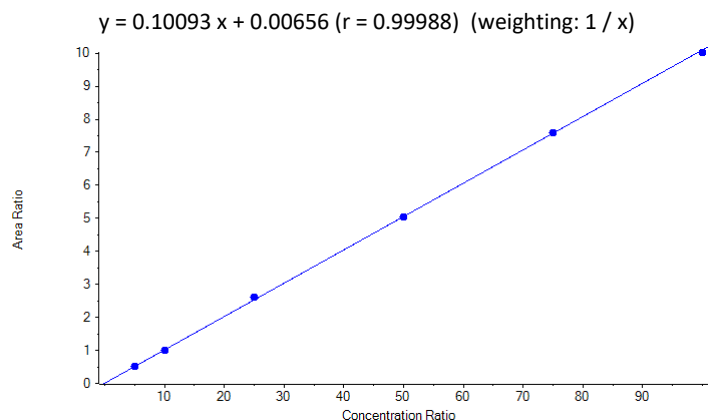
Peak Review			
Sample Name	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2	$\Delta 8$ -THC-D3
Standard 5			
Standard 6			
Low A			
Low B			

Peak Review			
Sample Name	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2	$\Delta 8$ -THC-D3
Low C			
Medium A			
Medium B			
Medium C			

Peak Review			
Sample Name	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2	$\Delta 8$ -THC-D3
High A			
High B			
High C			
Negative			

Peak Review			
Sample Name	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2	$\Delta 8$ -THC-D3
Standard 1 A			
Standard 1 B			
Standard 1 C			

Calibration Summary: THC-COOH



Analyte Transition Mass	
Internal Standard	THC-COOH-D3
I.S. Transition Mass	346.0 / 194.0
THC-COOH 1	343.0 / 299.1
THC-COOH 2	343.0 / 191.0
Relative Retention time: Expected (Acceptance Range)	
THC-COOH 1	1.006 (0.981-1.031)
THC-COOH 2	1.006 (0.981-1.031)
Ion Ratio: Expected (Acceptance Range)	
THC-COOH 2	0.180 (0.144-0.216)
THC-COOH comment	

Quantitative Summary: THC-COOH

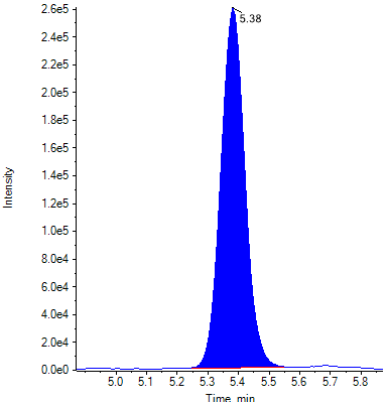
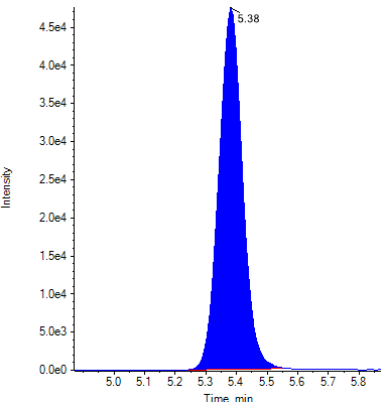
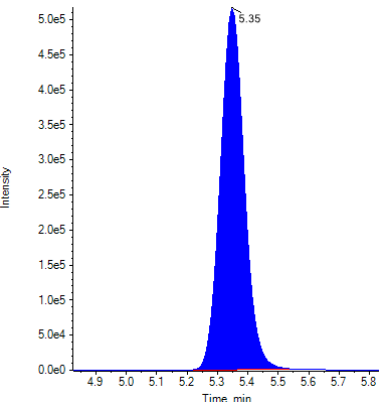
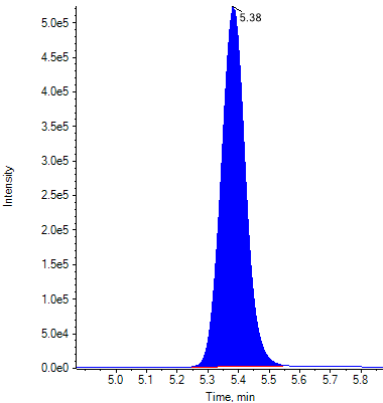
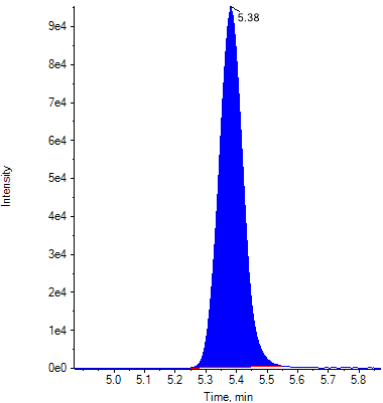
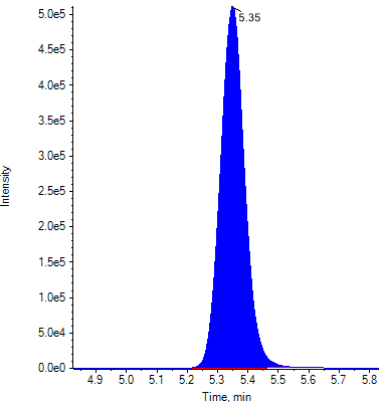
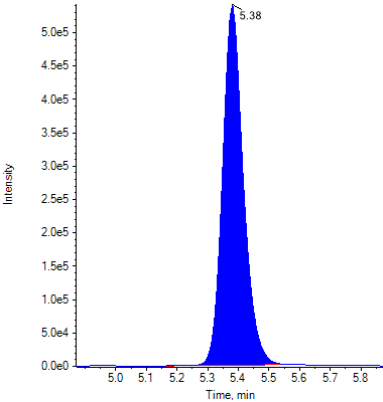
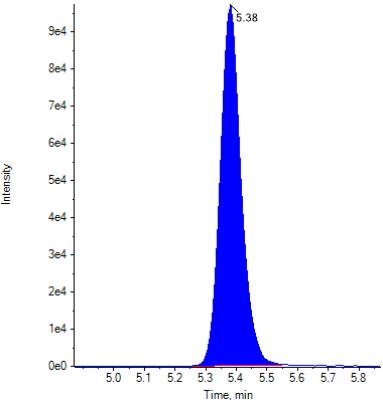
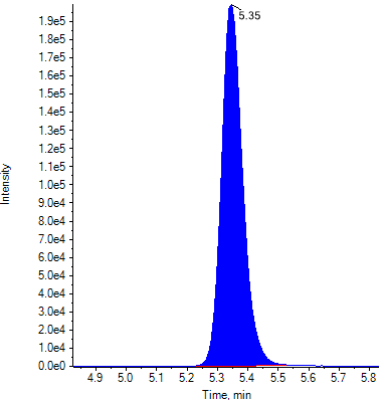
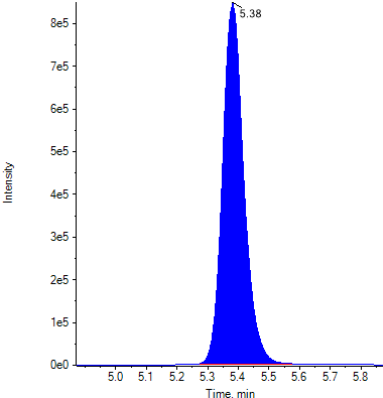
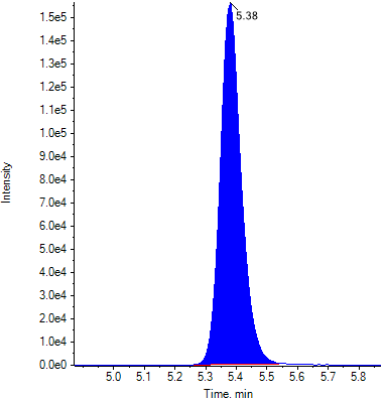
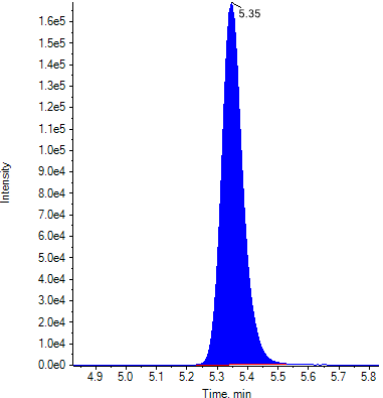
Sample Name	Area Ratio	Actual Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
Standard 1	0.5021	5.00	4.910	98.19
Standard 2	1.0062	10.00	9.904	99.04
Standard 3	2.6201	25.00	25.894	103.57
Standard 4	5.0337	50.00	49.806	99.61
Standard 5	7.6052	75.00	75.283	100.38
Standard 6	10.0195	100.00	99.203	99.20
Low A	0.7852	8.00	7.714	96.42
Low B	0.8052	8.00	7.912	98.90
Low C	0.8012	8.00	7.873	98.41
Medium A	4.3524	40.00	43.056	107.64
Medium B	4.4743	40.00	44.264	110.66
Medium C	4.4037	40.00	43.565	108.91
High A	7.3848	80.00	73.099	91.37
High B	7.9986	80.00	79.181	98.98
High C	7.7597	80.00	76.814	96.02
Negative	N/A	0.00	N/A	N/A
Standard 1 A	0.5091	5.00	4.979	99.57
Standard 1 B	0.4795	5.00	4.686	93.72
Standard 1 C	0.4928	5.00	4.817	96.35

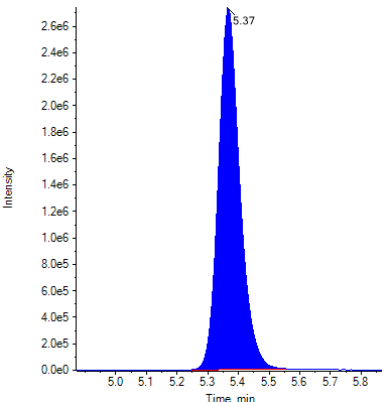
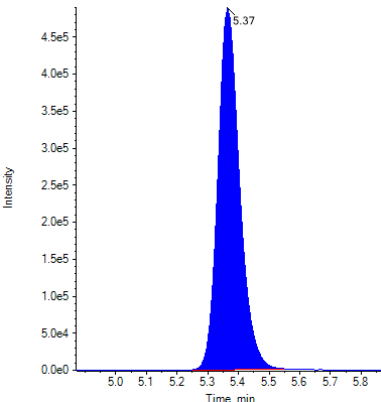
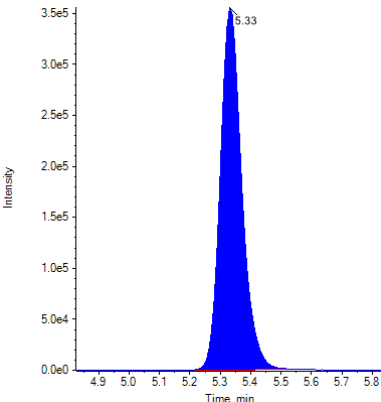
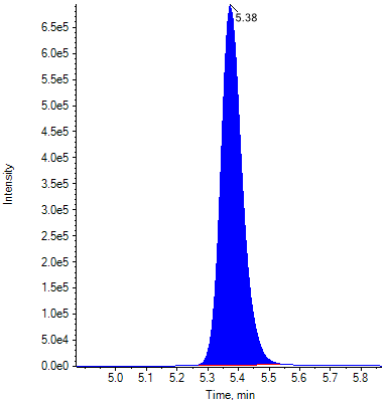
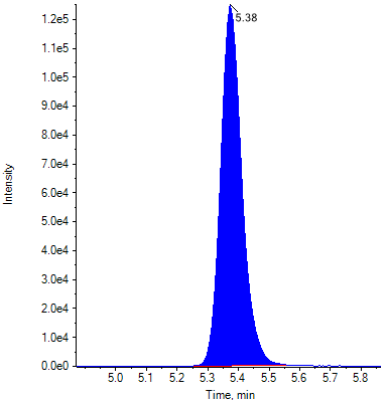
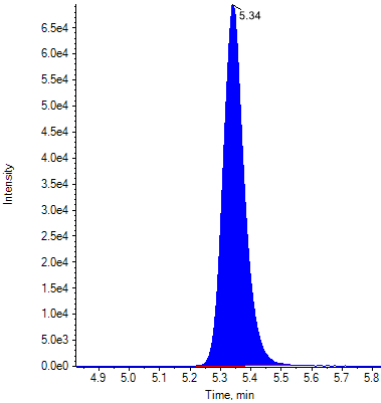
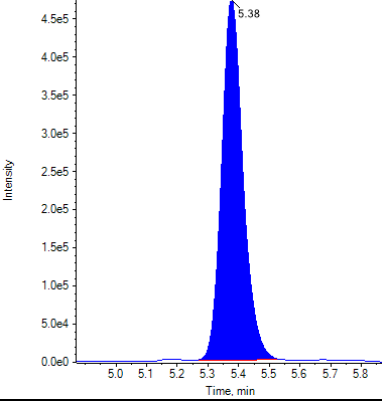
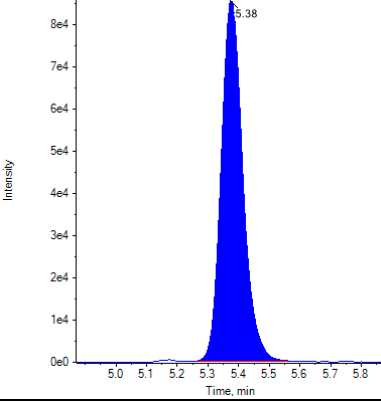
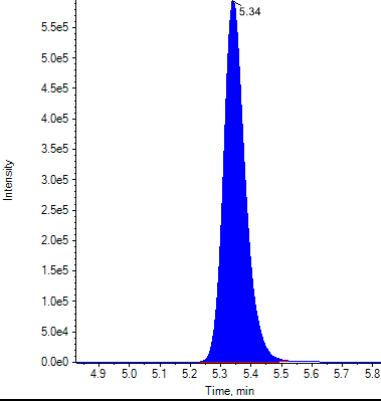
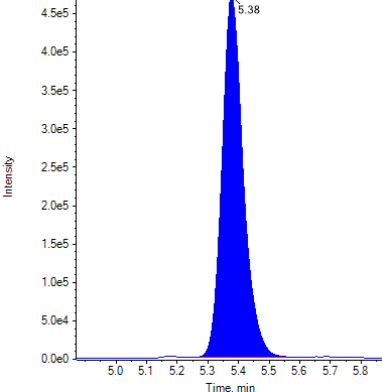
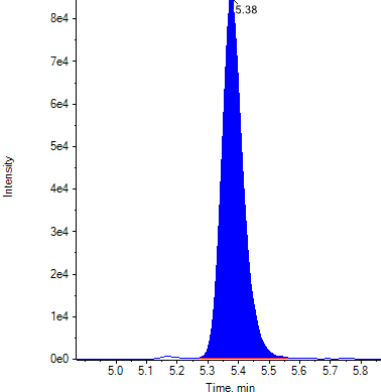
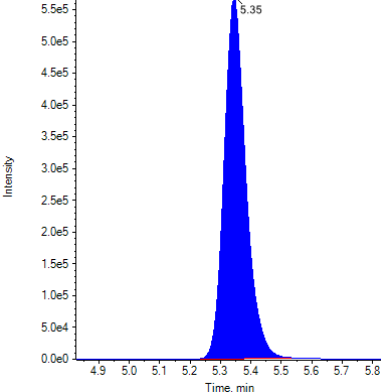
Identification Summary: THC-COOH

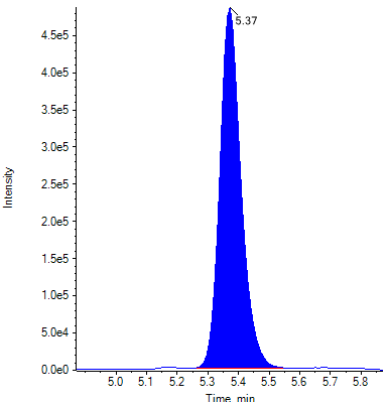
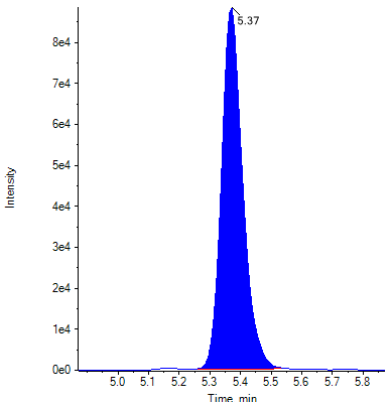
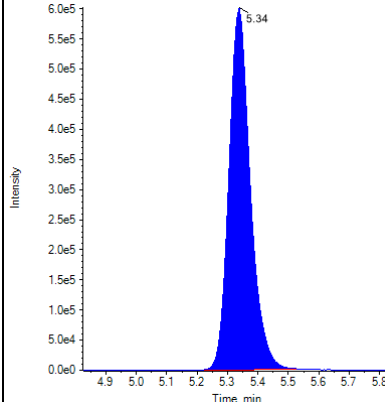
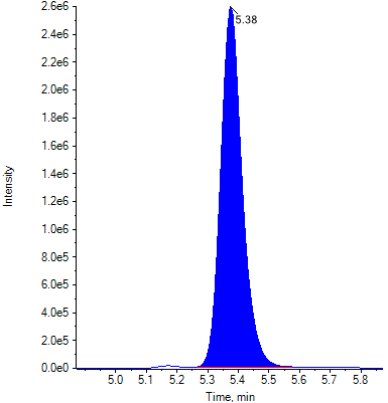
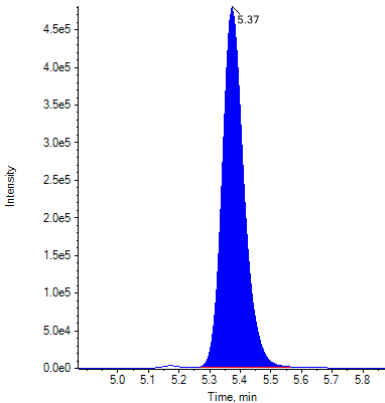
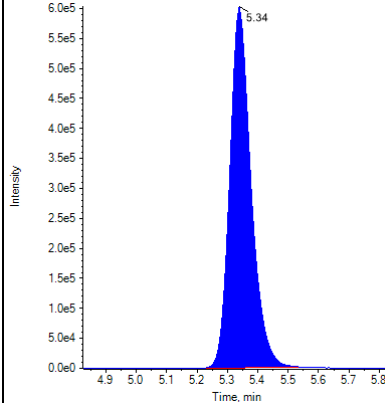
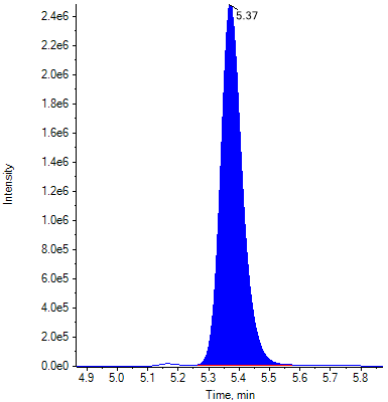
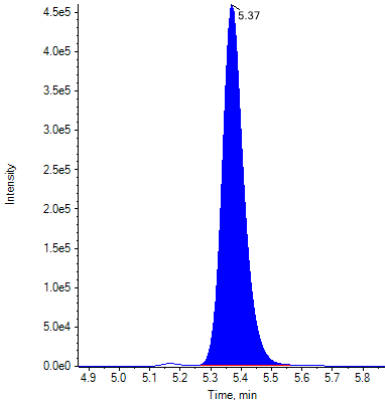
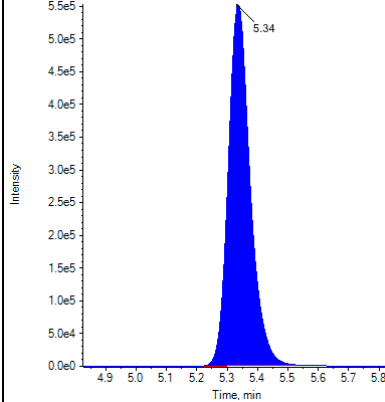
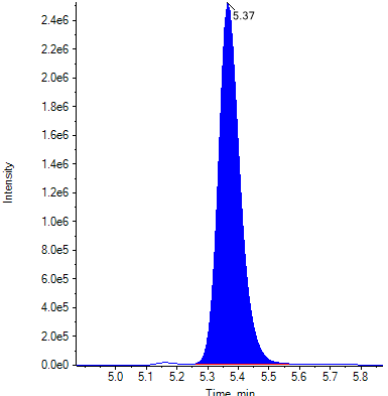
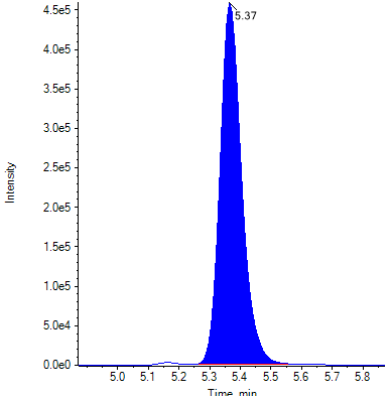
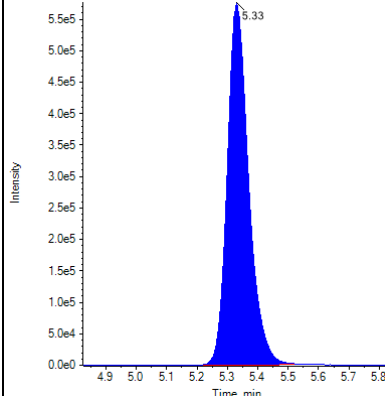
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 1	THC-COOH 1	1.006 (Pass)	0.180 (Pass)
	THC-COOH 2	1.006 (Pass)	
Standard 2	THC-COOH 1	1.006 (Pass)	0.181 (Pass)

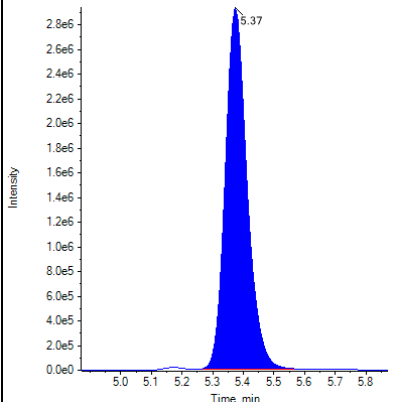
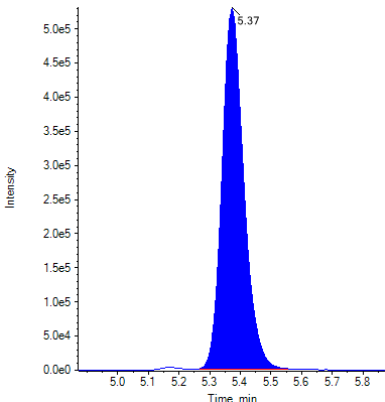
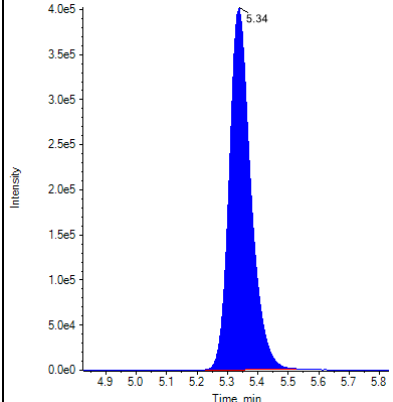
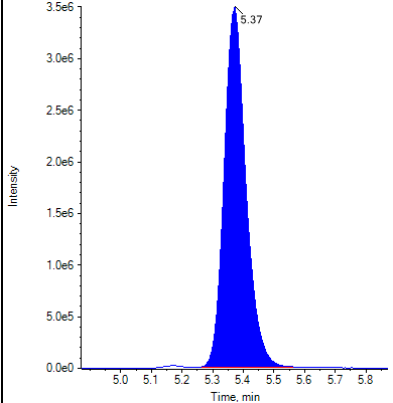
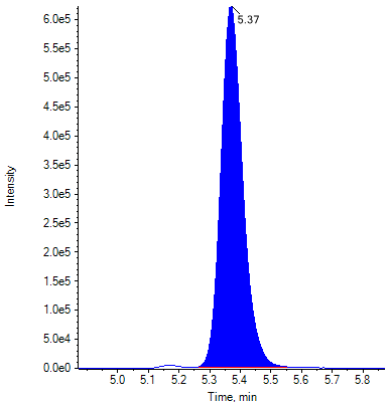
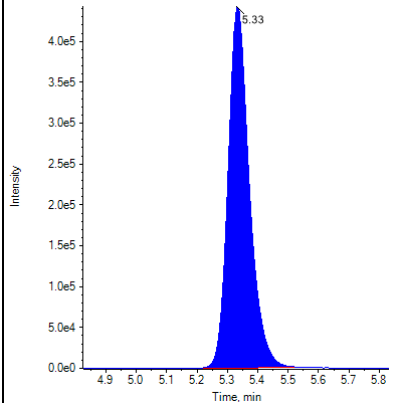
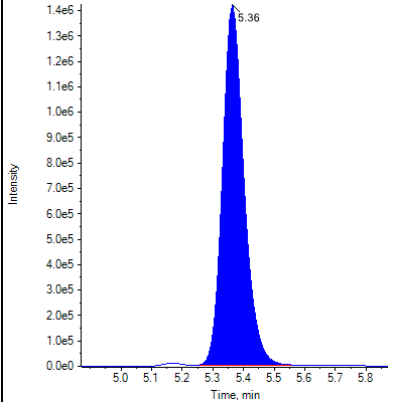
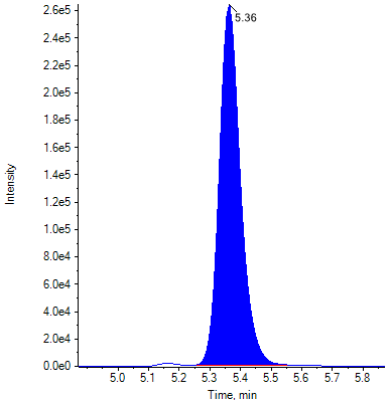
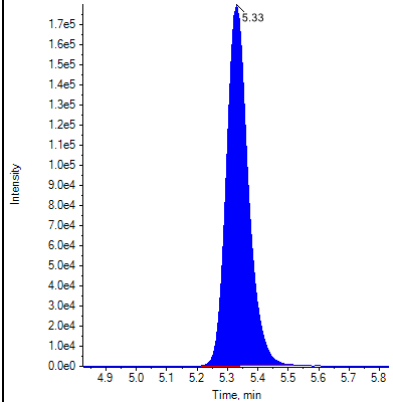
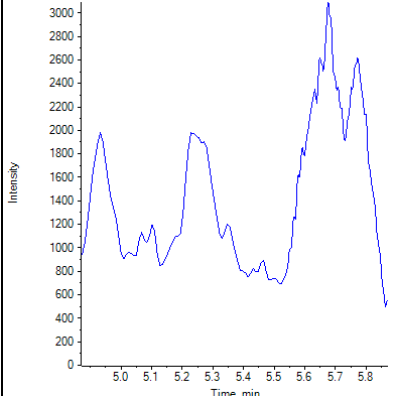
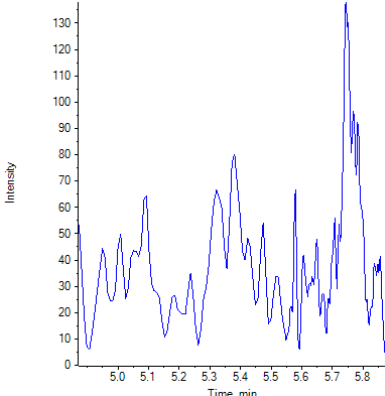
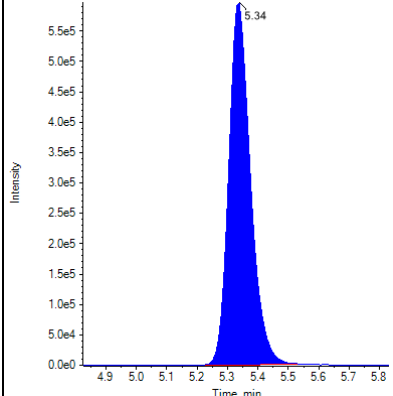
Identification Summary: THC-COOH			
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
	THC-COOH 2	1.006 (Pass)	
Standard 3	THC-COOH 1	1.006 (Pass)	0.179 (Pass)
	THC-COOH 2	1.006 (Pass)	
Standard 4	THC-COOH 1	1.006 (Pass)	0.181 (Pass)
	THC-COOH 2	1.006 (Pass)	
Standard 5	THC-COOH 1	1.006 (Pass)	0.181 (Pass)
	THC-COOH 2	1.006 (Pass)	
Standard 6	THC-COOH 1	1.006 (Pass)	0.180 (Pass)
	THC-COOH 2	1.006 (Pass)	
Low A	THC-COOH 1	1.007 (Pass)	0.184 (Pass)
	THC-COOH 2	1.006 (Pass)	
Low B	THC-COOH 1	1.006 (Pass)	0.183 (Pass)
	THC-COOH 2	1.006 (Pass)	
Low C	THC-COOH 1	1.006 (Pass)	0.182 (Pass)
	THC-COOH 2	1.006 (Pass)	
Medium A	THC-COOH 1	1.007 (Pass)	0.184 (Pass)
	THC-COOH 2	1.006 (Pass)	
Medium B	THC-COOH 1	1.007 (Pass)	0.182 (Pass)
	THC-COOH 2	1.006 (Pass)	
Medium C	THC-COOH 1	1.007 (Pass)	0.182 (Pass)
	THC-COOH 2	1.006 (Pass)	
High A	THC-COOH 1	1.007 (Pass)	0.181 (Pass)
	THC-COOH 2	1.006 (Pass)	
High B	THC-COOH 1	1.007 (Pass)	0.180 (Pass)
	THC-COOH 2	1.007 (Pass)	
High C	THC-COOH 1	1.006 (Pass)	0.184 (Pass)
	THC-COOH 2	1.006 (Pass)	
Negative	THC-COOH 1	N/A ()	N/A ()
	THC-COOH 2	N/A ()	
Standard 1 A	THC-COOH 1	1.006 (Pass)	0.180 (Pass)
	THC-COOH 2	1.006 (Pass)	
Standard 1 B	THC-COOH 1	1.006 (Pass)	0.184 (Pass)
	THC-COOH 2	1.006 (Pass)	
Standard 1 C	THC-COOH 1	1.007 (Pass)	0.186 (Pass)
	THC-COOH 2	1.007 (Pass)	

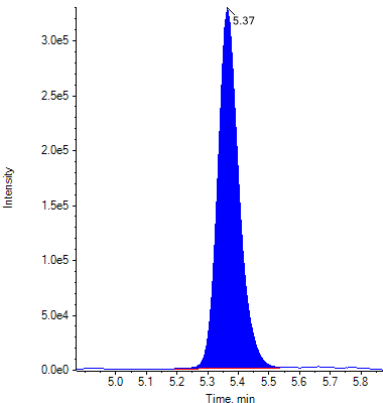
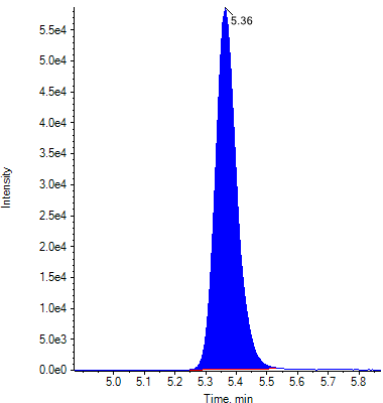
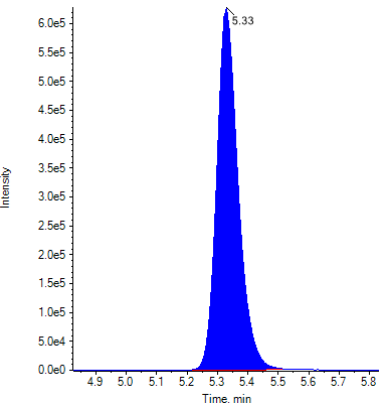
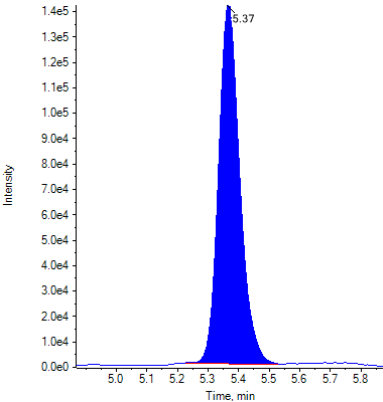
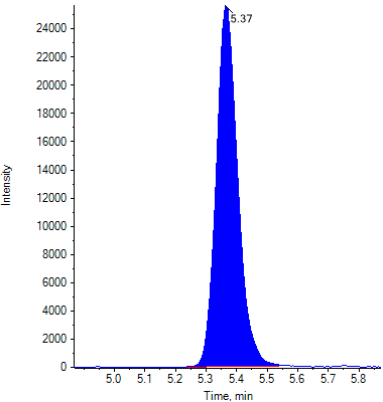
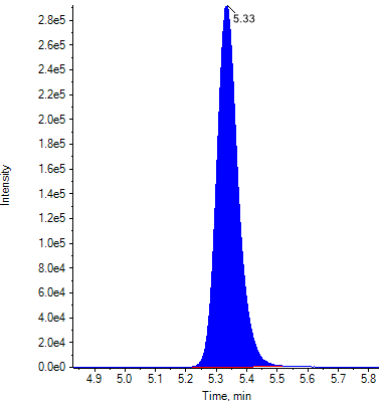
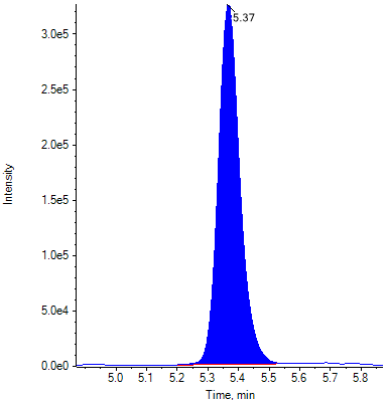
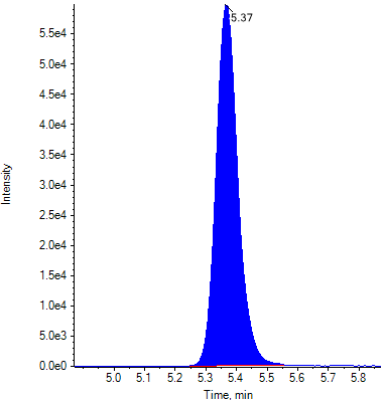
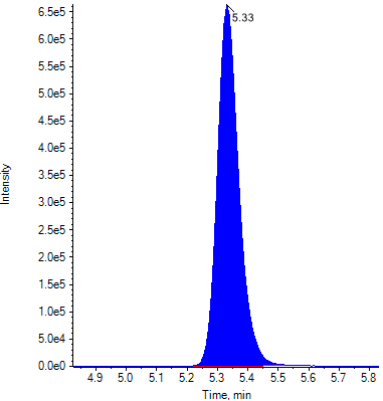
Peak Review			
Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3

Peak Review			
Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3
Standard 1			
Standard 2			
Standard 3			
Standard 4			

Peak Review			
Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3
Standard 5			
Standard 6			
Low A			
Low B			

Peak Review			
Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3
Low C			
Medium A			
Medium B			
Medium C			

Peak Review			
Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3
High A			
High B			
High C			
Negative			

Peak Review			
Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3
Standard 1 A			
Standard 1 B			
Standard 1 C			



Toxicology Unit
Calibration/Control Report
Quantitative Analysis

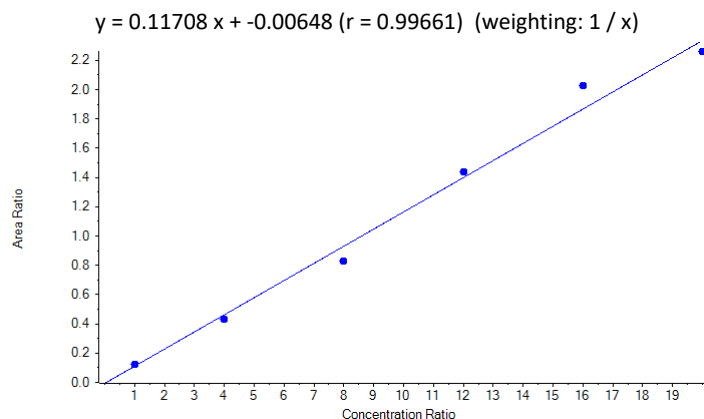
Batch Summary

Acquisition Method	THC.dam
Project	THC
Result Table	20220914TSF

Result Table List

Sample Name	Sample Type	Position	Acquisition Time	Sample Comment
Standard 1	Standard	35	09/14/2022 21:47:00	
Standard 2	Standard	36	09/14/2022 22:01:05	
Standard 3	Standard	37	09/14/2022 22:15:10	
Standard 4	Standard	38	09/14/2022 22:29:16	
Standard 5	Standard	39	09/14/2022 22:43:18	
Standard 6	Standard	40	09/14/2022 22:57:23	
Low A	Quality Control	41	09/14/2022 23:11:29	
Low B	Quality Control	42	09/14/2022 23:25:34	
Low C	Quality Control	43	09/14/2022 23:39:40	
Medium A	Quality Control	44	09/14/2022 23:53:45	
Medium B	Quality Control	45	09/15/2022 00:07:51	
Medium C	Quality Control	46	09/15/2022 00:21:56	
High A	Quality Control	47	09/15/2022 00:36:01	
High B	Quality Control	48	09/15/2022 00:50:07	
High C	Quality Control	49	09/15/2022 01:04:12	
Negative	Quality Control	50	09/15/2022 01:18:17	
Standard 1 A	Quality Control	51	09/15/2022 01:32:23	
Standard 1 B	Quality Control	52	09/15/2022 01:46:28	
Standard 1 C	Quality Control	53	09/15/2022 02:00:34	

Calibration Summary: THC-OH



Analyte Transition Mass	
Internal Standard	THC-OH-D3
I.S. Transition Mass	334.1 / 196.1
THC-OH 1	331.1 / 193.1
THC-OH 2	331.1 / 105.1
Relative Retention time: Expected (Acceptance Range)	
THC-OH 1	1.007 (0.982-1.032)
THC-OH 2	1.006 (0.981-1.031)
Ion Ratio: Expected (Acceptance Range)	
THC-OH 2	0.682 (0.546-0.818)
THC-OH comment	

Quantitative Summary: THC-OH

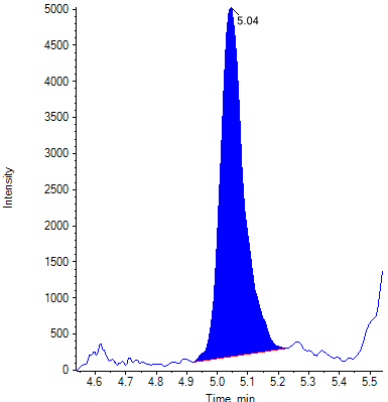
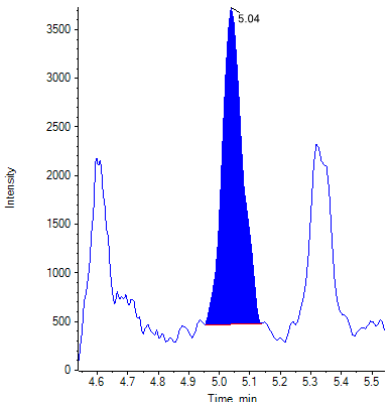
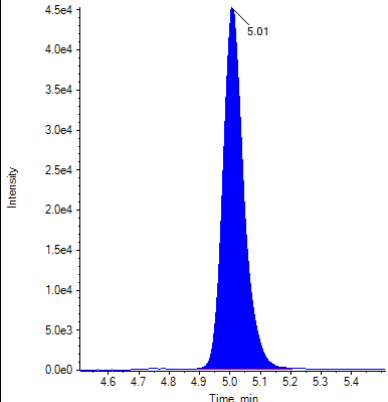
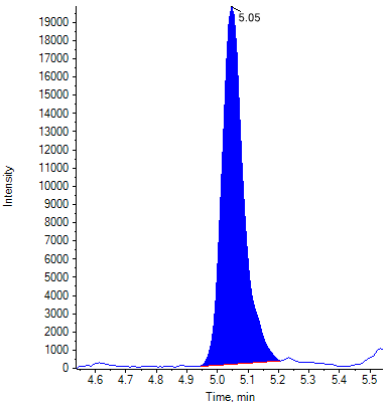
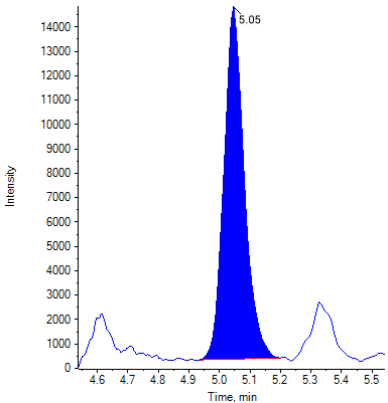
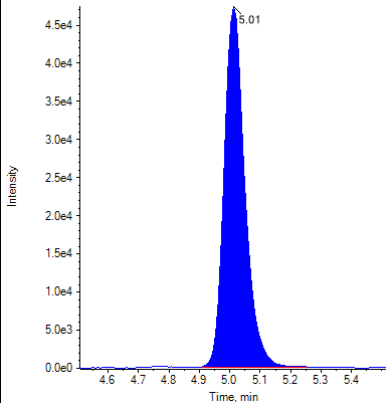
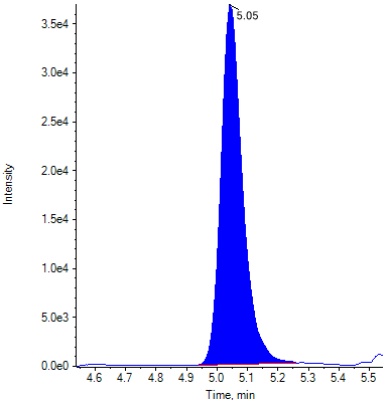
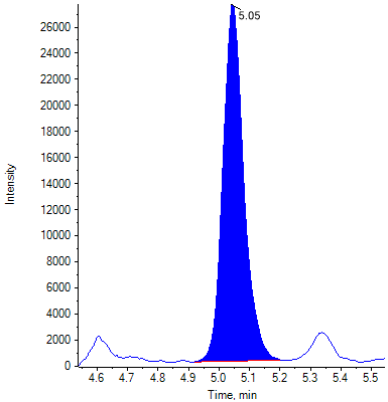
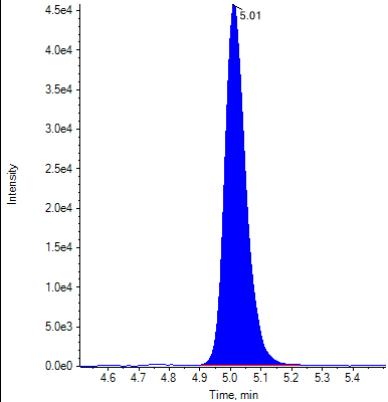
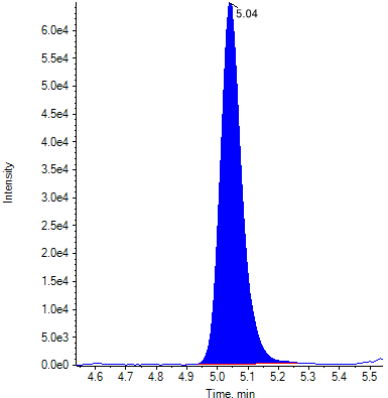
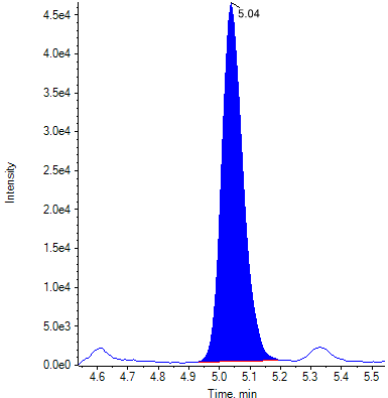
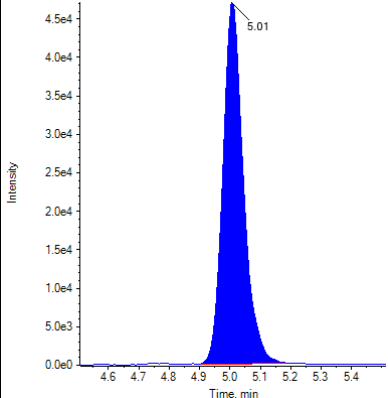
Sample Name	Area Ratio	Actual Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
Standard 1	0.1218	1.00	1.096	109.57
Standard 2	0.4296	4.00	3.725	93.11
Standard 3	0.8313	8.00	7.155	89.44
Standard 4	1.4363	12.00	12.322	102.69
Standard 5	2.0242	16.00	17.344	108.40
Standard 6	2.2600	20.00	19.358	96.79
Low A	0.2437	2.00	2.137	106.86
Low B	0.2396	2.00	2.101	105.07
Low C	0.2410	2.00	2.114	105.70
Medium A	1.2069	10.00	10.363	103.63
Medium B	1.1852	10.00	10.178	101.78
Medium C	1.1663	10.00	10.016	100.16
High A	2.0436	18.00	17.510	97.28
High B	2.0016	18.00	17.151	95.28
High C	1.9649	18.00	16.837	93.54
Negative	N/A	0.00	N/A	N/A
Standard 1 A	0.1262	1.00	1.133	113.30
Standard 1 B	0.1196	1.00	1.077	107.70
Standard 1 C	0.1245	1.00	1.119	111.88

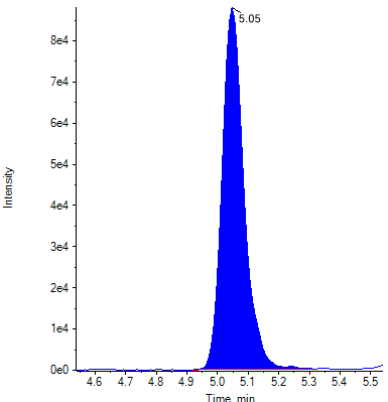
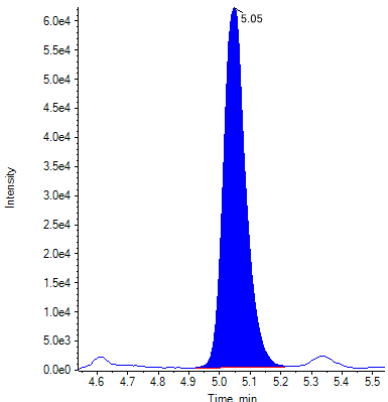
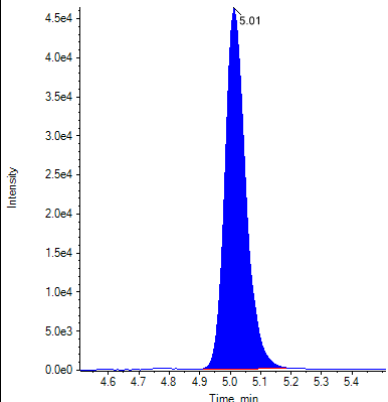
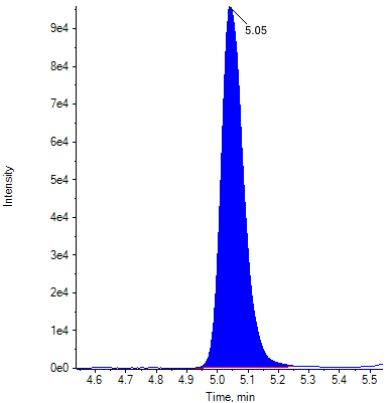
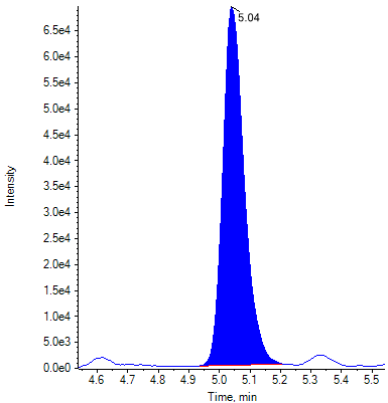
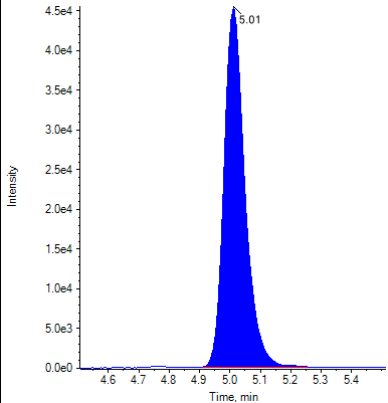
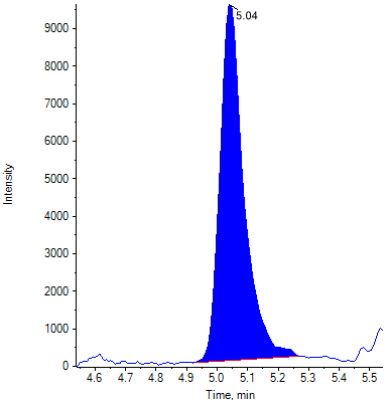
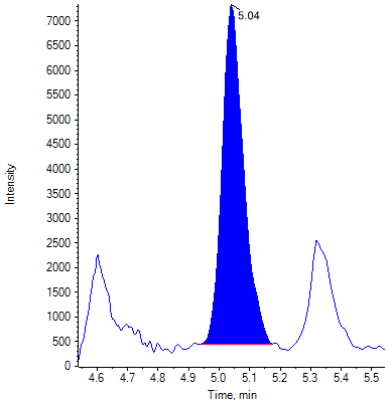
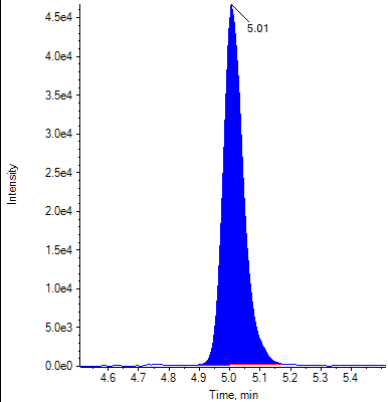
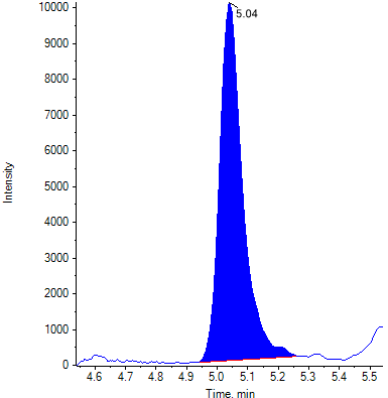
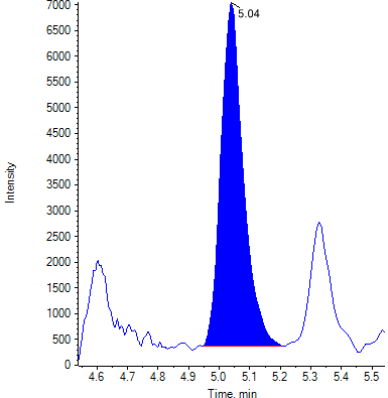
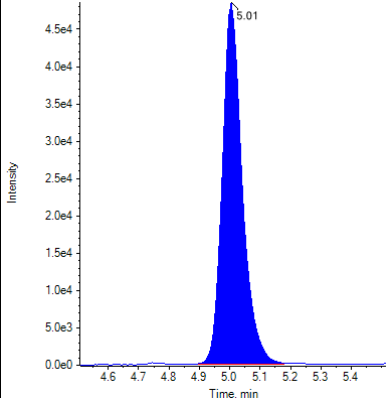
Identification Summary: THC-OH

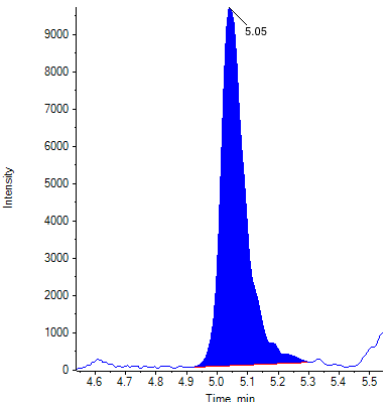
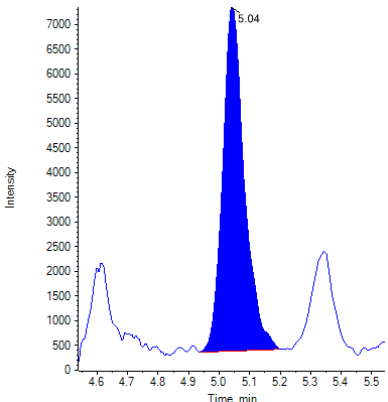
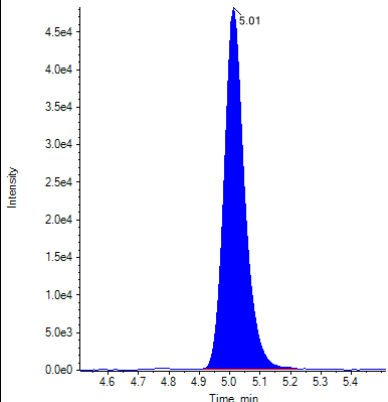
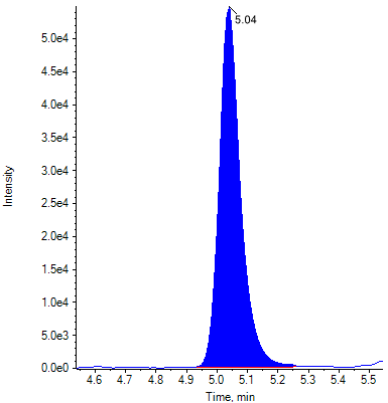
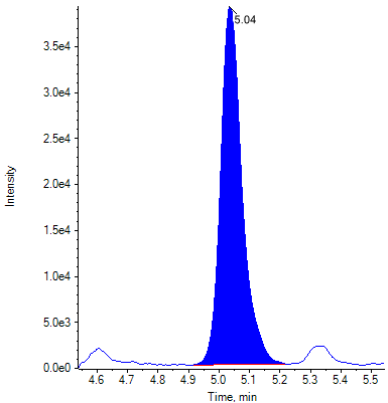
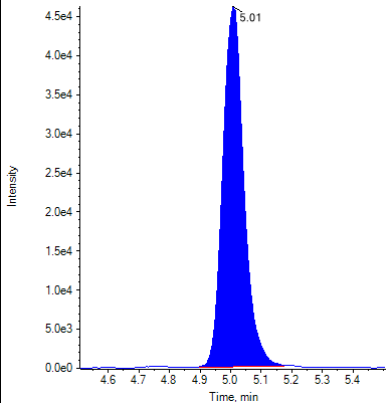
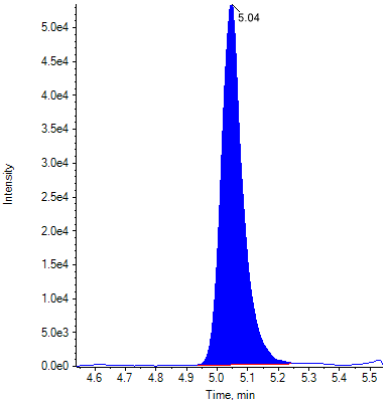
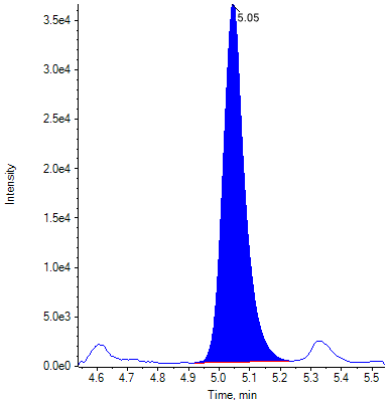
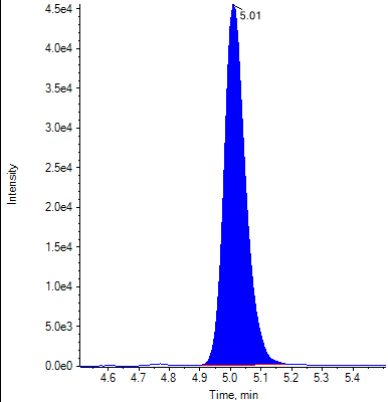
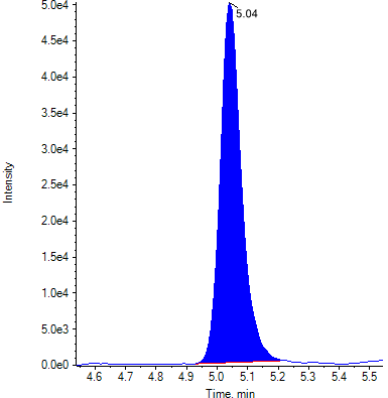
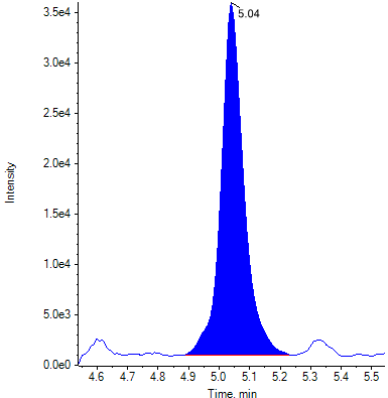
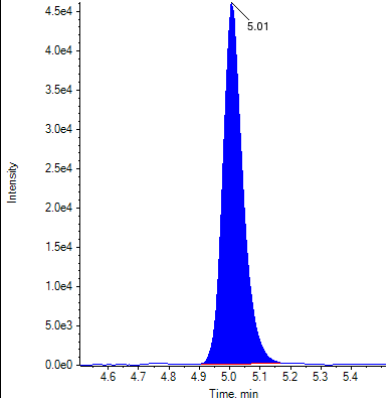
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 1	THC-OH 1	1.007 (Pass)	0.577 (Pass)
	THC-OH 2	1.006 (Pass)	
Standard 2	THC-OH 1	1.007 (Pass)	0.696 (Pass)
	THC-OH 2	1.007 (Pass)	

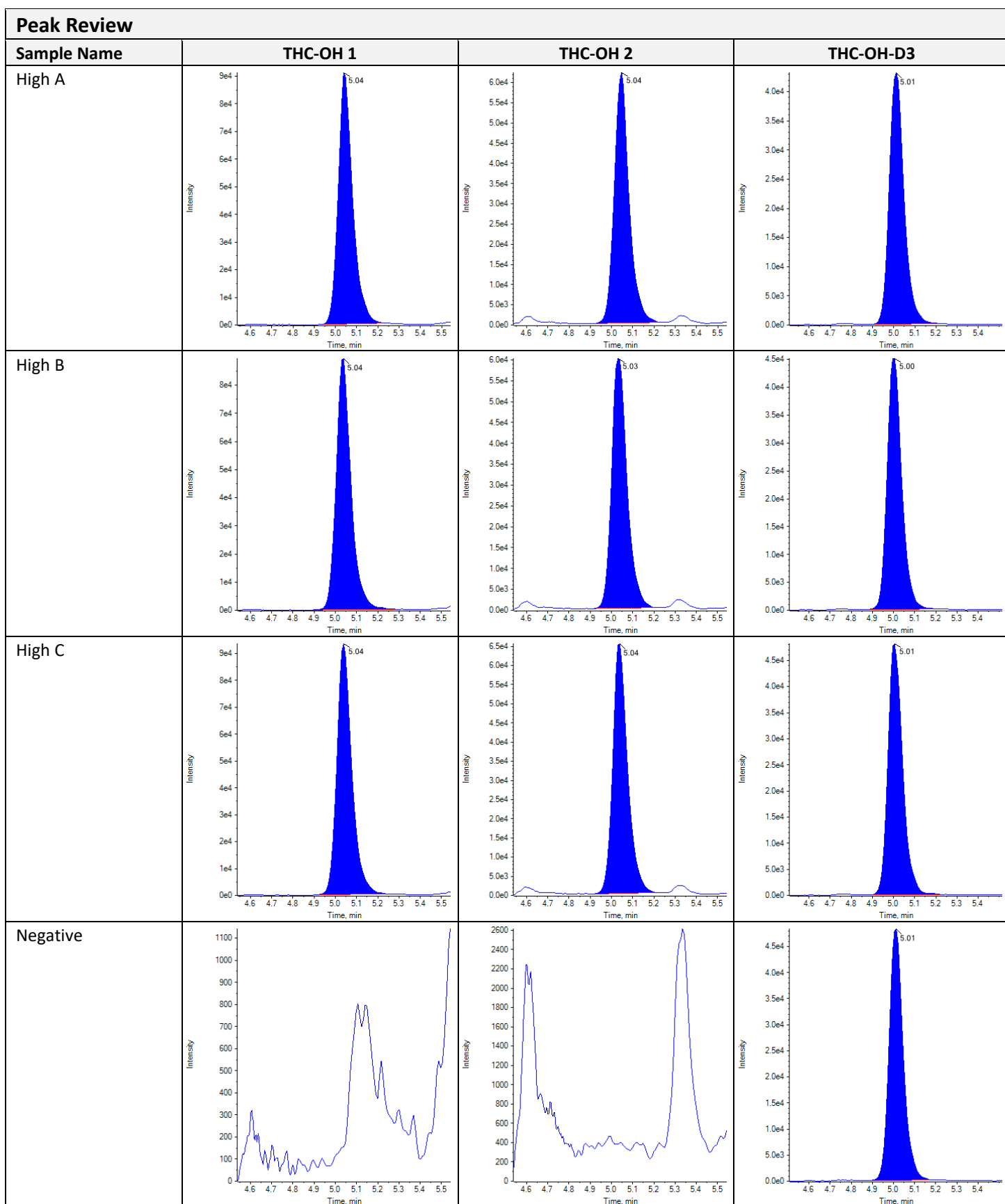
Identification Summary: THC-OH			
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 3	THC-OH 1	1.007 (Pass)	0.720 (Pass)
	THC-OH 2	1.007 (Pass)	
Standard 4	THC-OH 1	1.007 (Pass)	0.699 (Pass)
	THC-OH 2	1.006 (Pass)	
Standard 5	THC-OH 1	1.007 (Pass)	0.712 (Pass)
	THC-OH 2	1.006 (Pass)	
Standard 6	THC-OH 1	1.007 (Pass)	0.687 (Pass)
	THC-OH 2	1.006 (Pass)	
Low A	THC-OH 1	1.007 (Pass)	0.646 (Pass)
	THC-OH 2	1.006 (Pass)	
Low B	THC-OH 1	1.007 (Pass)	0.643 (Pass)
	THC-OH 2	1.007 (Pass)	
Low C	THC-OH 1	1.007 (Pass)	0.647 (Pass)
	THC-OH 2	1.006 (Pass)	
Medium A	THC-OH 1	1.006 (Pass)	0.719 (Pass)
	THC-OH 2	1.006 (Pass)	
Medium B	THC-OH 1	1.007 (Pass)	0.685 (Pass)
	THC-OH 2	1.007 (Pass)	
Medium C	THC-OH 1	1.007 (Pass)	0.749 (Pass)
	THC-OH 2	1.007 (Pass)	
High A	THC-OH 1	1.006 (Pass)	0.700 (Pass)
	THC-OH 2	1.007 (Pass)	
High B	THC-OH 1	1.007 (Pass)	0.697 (Pass)
	THC-OH 2	1.006 (Pass)	
High C	THC-OH 1	1.007 (Pass)	0.694 (Pass)
	THC-OH 2	1.006 (Pass)	
Negative	THC-OH 1	N/A ()	N/A ()
	THC-OH 2	N/A ()	
Standard 1 A	THC-OH 1	1.007 (Pass)	0.592 (Pass)
	THC-OH 2	1.006 (Pass)	
Standard 1 B	THC-OH 1	1.007 (Pass)	0.634 (Pass)
	THC-OH 2	1.006 (Pass)	
Standard 1 C	THC-OH 1	1.007 (Pass)	0.601 (Pass)
	THC-OH 2	1.006 (Pass)	

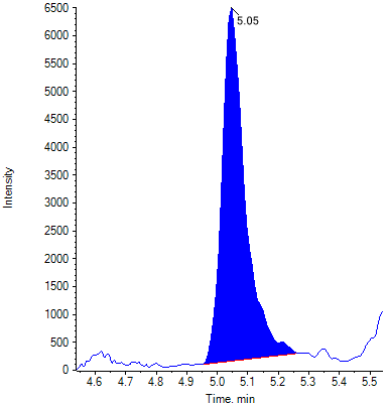
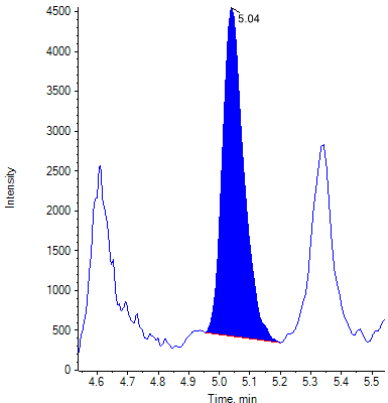
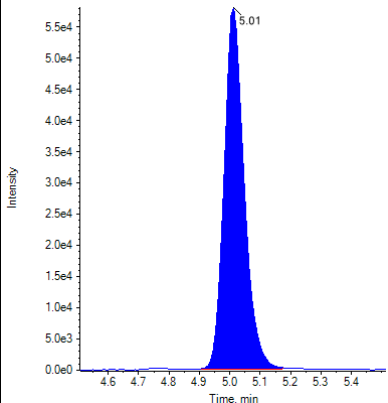
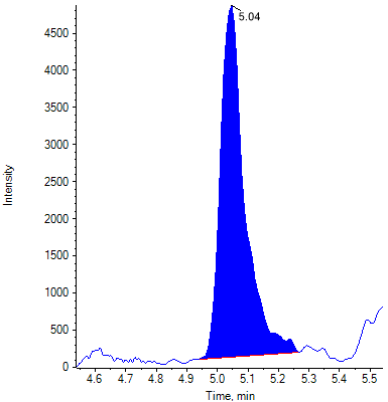
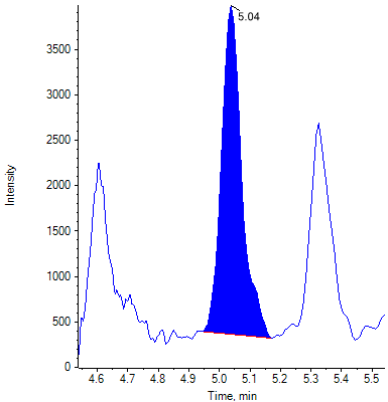
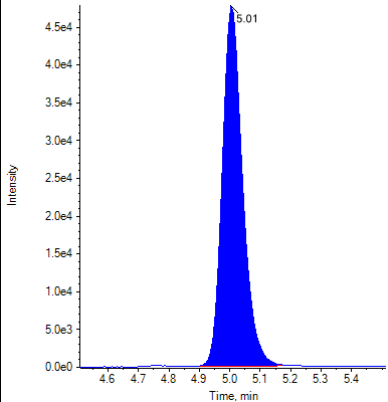
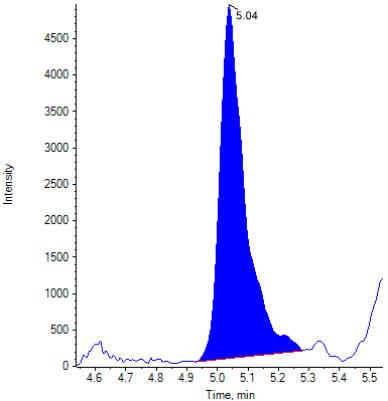
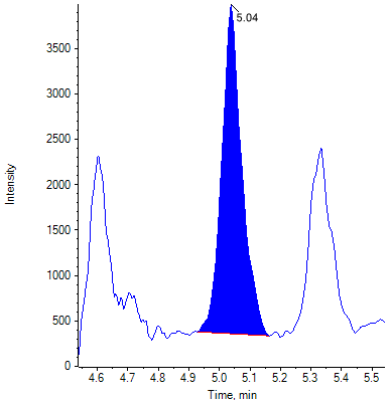
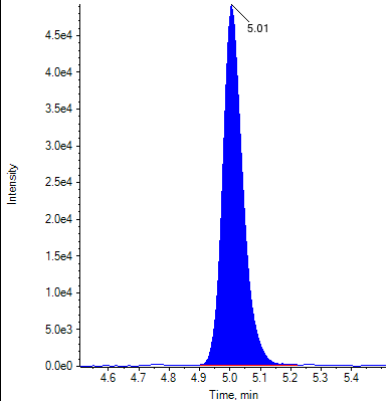
Peak Review			
Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3

Peak Review			
Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3
Standard 1			
Standard 2			
Standard 3			
Standard 4			

Peak Review			
Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3
Standard 5			
Standard 6			
Low A			
Low B			

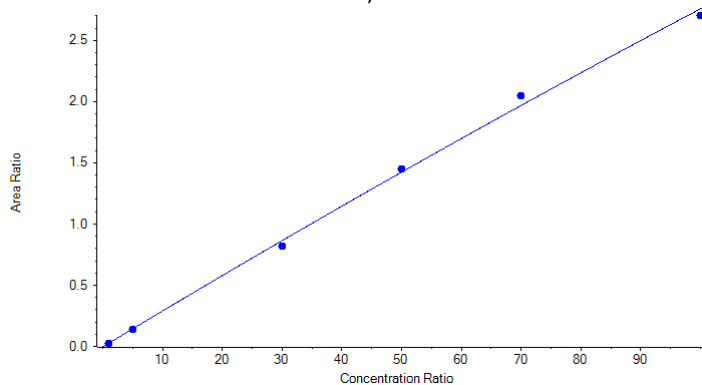
Peak Review			
Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3
Low C			
Medium A			
Medium B			
Medium C			



Peak Review			
Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3
Standard 1 A			
Standard 1 B			
Standard 1 C			

Calibration Summary: Δ9-THC

$$y = -1.85110e-5 x^2 + 0.02945 x - 0.00307 \quad (r = 0.99938) \quad (\text{weighting: } 1/x)$$

**Analyte Transition Mass**

Internal Standard	Δ9-THC-D3
I.S. Transition Mass	318.1 / 123.0
Δ9-THC 1	315.1 / 193.1
Δ9-THC 2	315.1 / 123.0

Relative Retention time: Expected (Acceptance Range)

Δ9-THC 1	1.004 (0.979-1.029)
Δ9-THC 2	1.004 (0.979-1.029)

Ion Ratio: Expected (Acceptance Range)

Δ9-THC 2	0.715 (0.572-0.858)
Δ9-THC comment	

Quantitative Summary: Δ9-THC

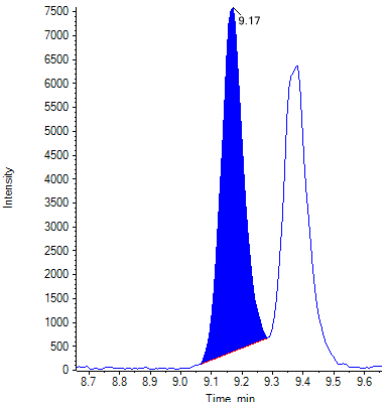
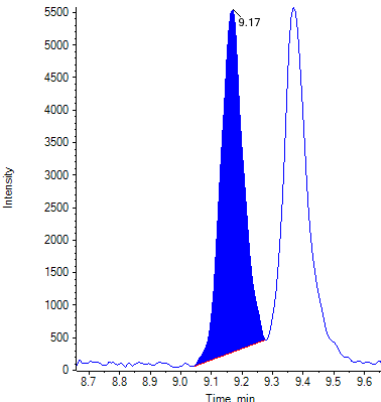
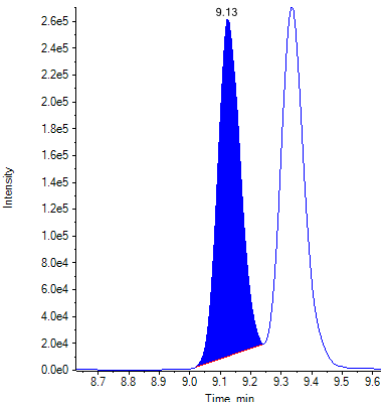
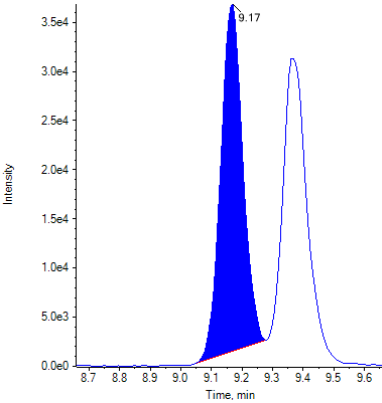
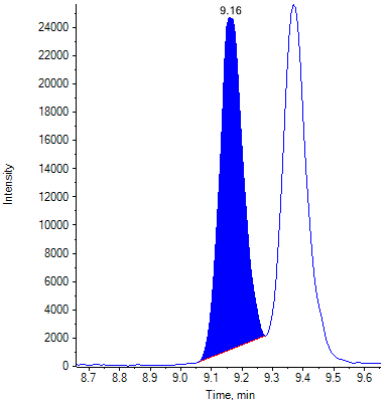
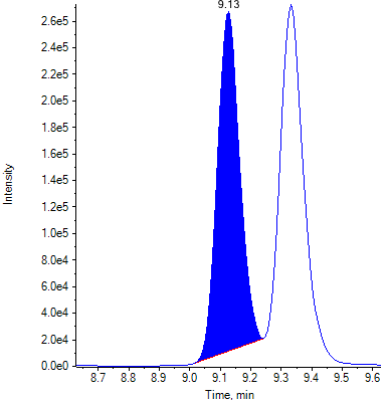
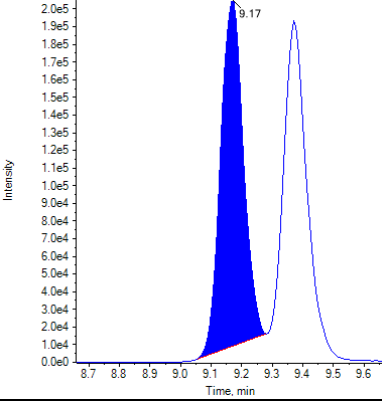
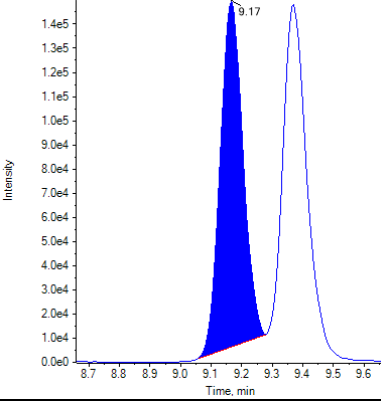
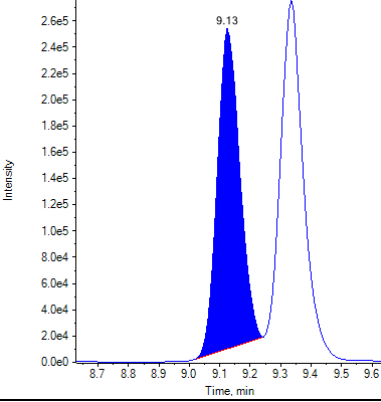
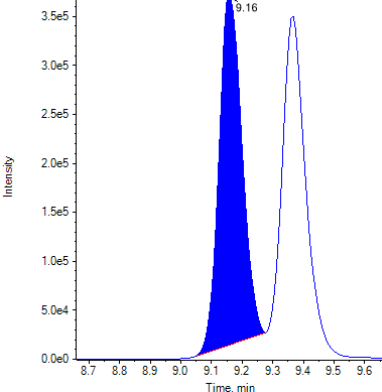
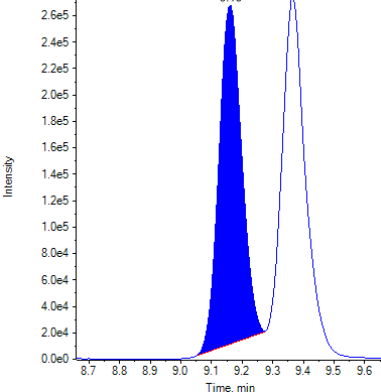
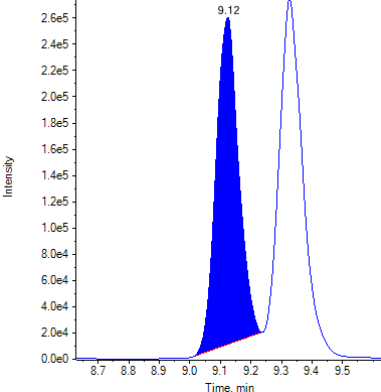
Sample Name	Area Ratio	Actual Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
Standard 1	0.0283	1.00	1.065	106.47
Standard 2	0.1363	5.00	4.745	94.91
Standard 3	0.8170	30.00	28.347	94.49
Standard 4	1.4527	50.00	51.064	102.13
Standard 5	2.0459	70.00	72.903	104.15
Standard 6	2.7026	100.00	97.878	97.88
Low A	0.0916	3.00	3.219	107.30
Low B	0.0910	3.00	3.199	106.63
Low C	0.0849	3.00	2.991	99.71
Medium A	1.1740	40.00	41.020	102.55
Medium B	1.1513	40.00	40.206	100.51
Medium C	1.1915	40.00	41.647	104.12
High A	2.4597	80.00	88.536	110.67
High B	2.4280	80.00	87.328	109.16
High C	2.3856	80.00	85.712	107.14
Negative	N/A	0.00	N/A	N/A
Standard 1 A	0.0286	1.00	1.076	107.61
Standard 1 B	0.0261	1.00	0.990	99.00
Standard 1 C	0.0275	1.00	1.038	103.81

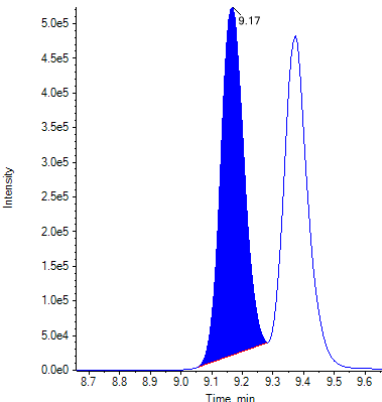
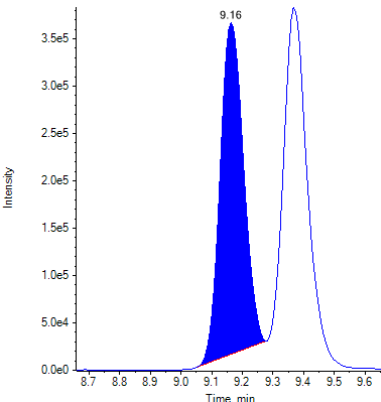
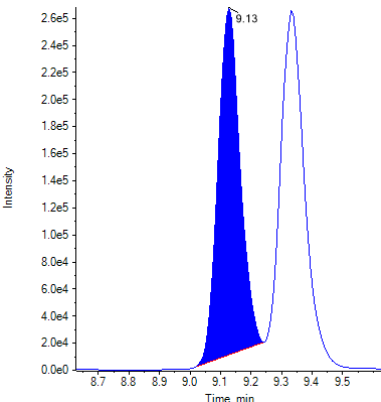
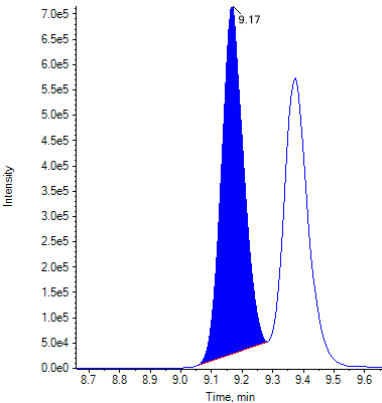
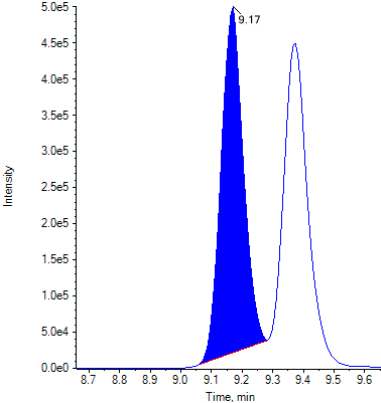
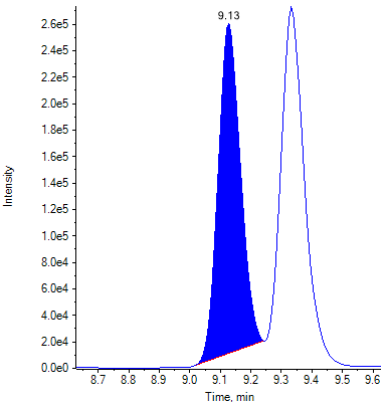
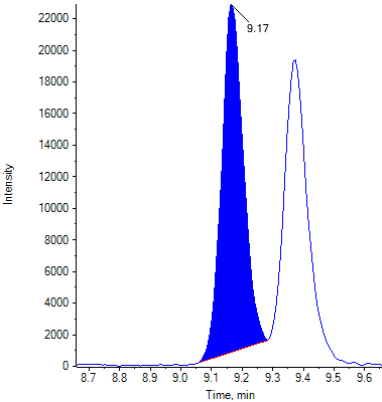
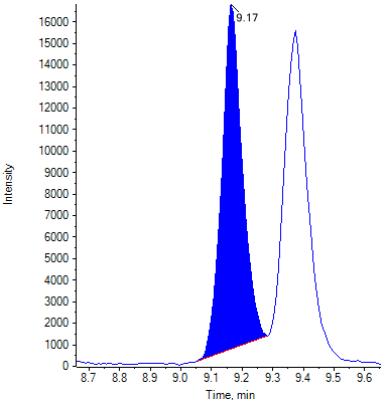
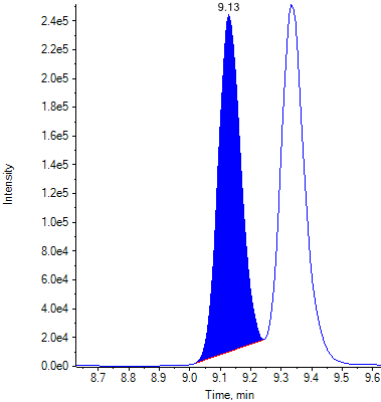
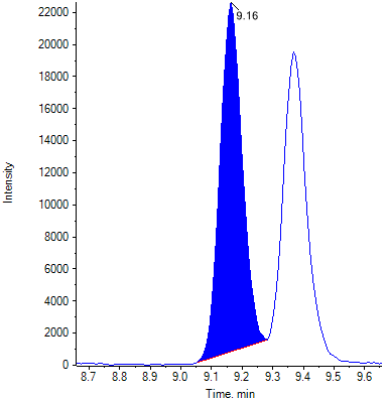
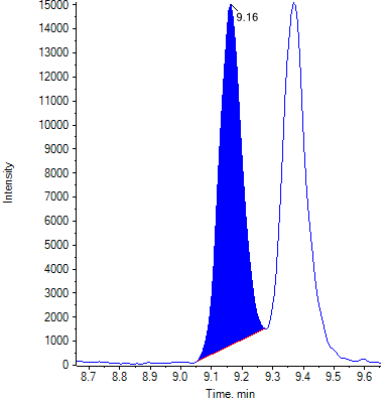
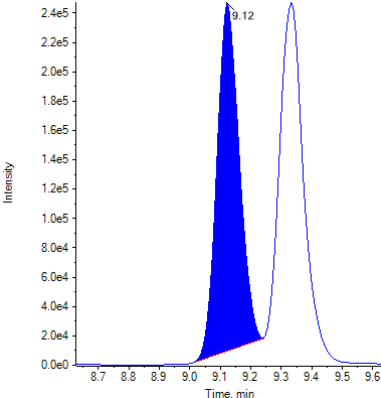
Identification Summary: Δ9-THC

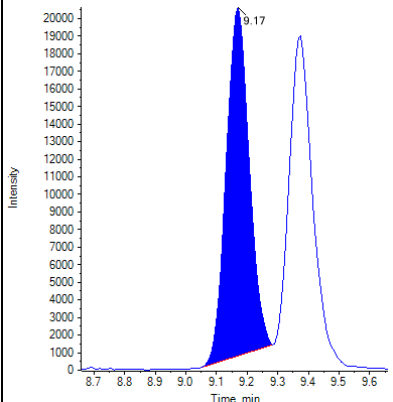
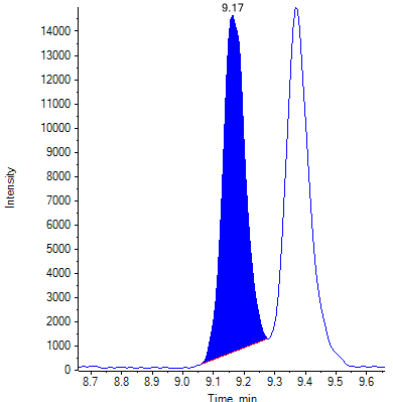
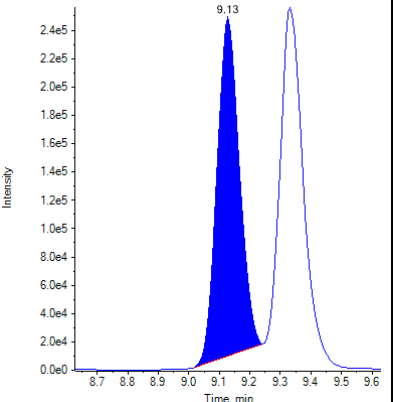
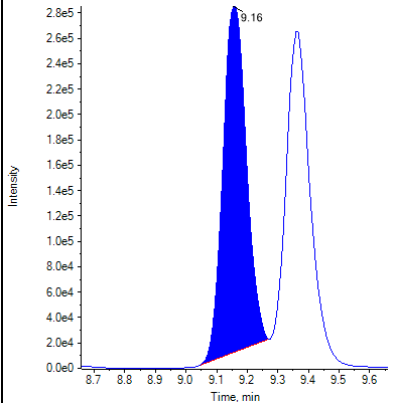
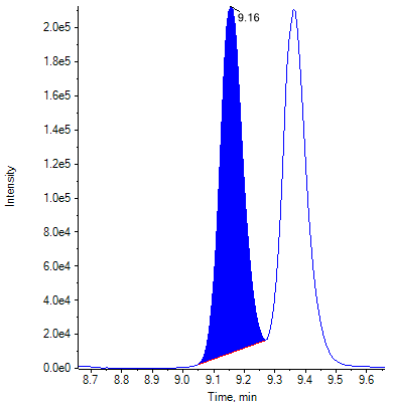
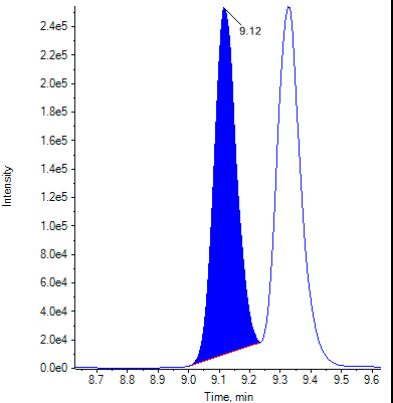
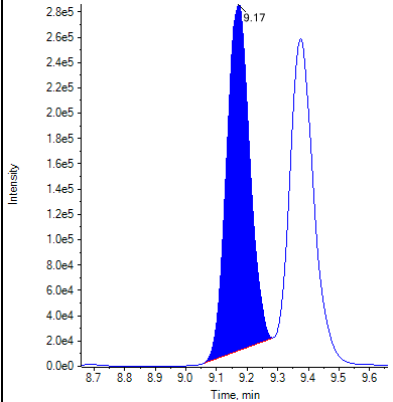
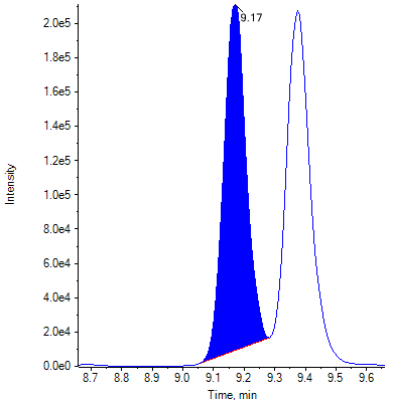
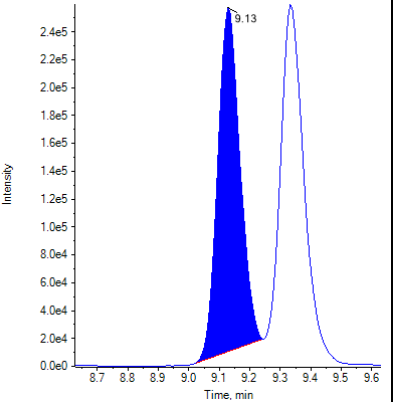
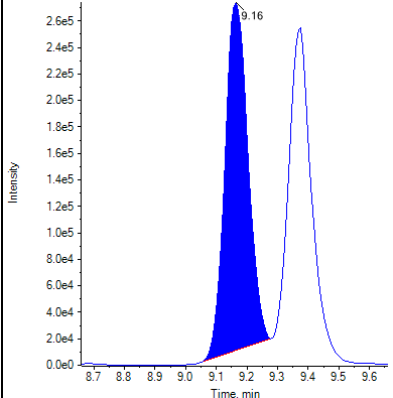
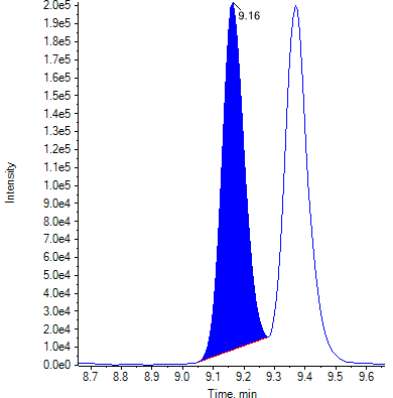
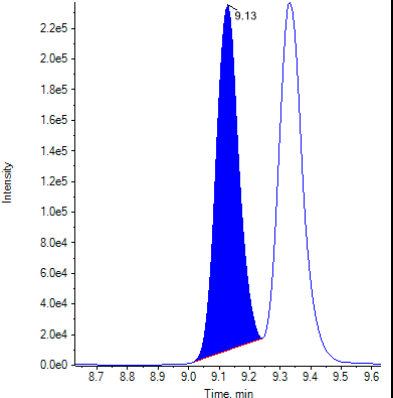
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 1	Δ9-THC 1	1.004 (Pass)	0.744 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Standard 2	Δ9-THC 1	1.004 (Pass)	0.705 (Pass)
	Δ9-THC 2	1.004 (Pass)	

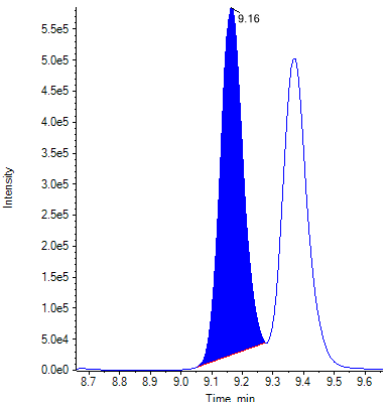
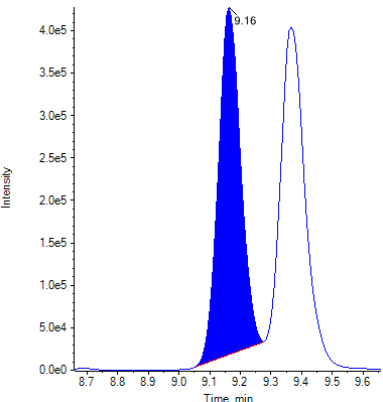
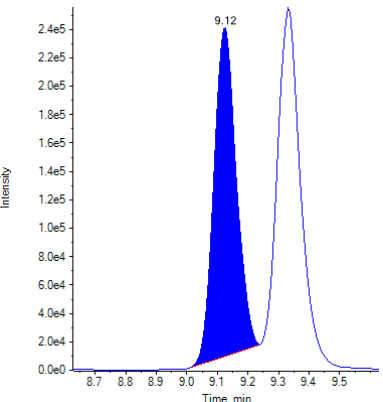
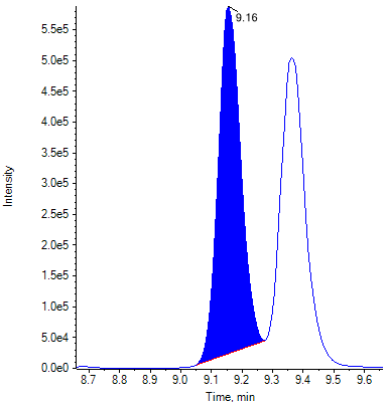
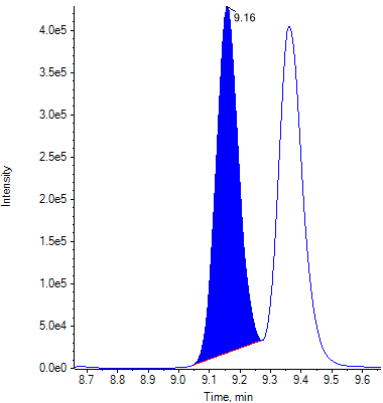
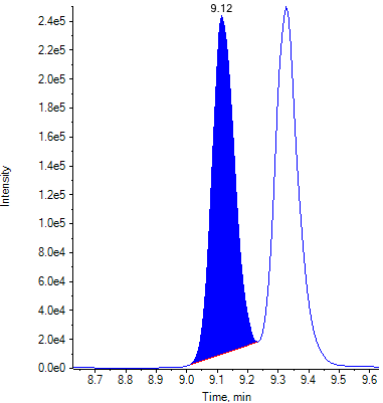
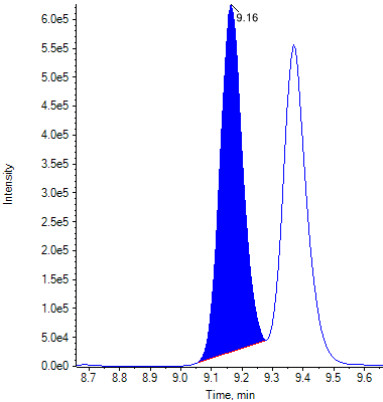
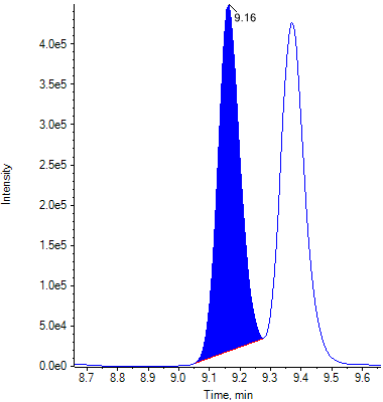
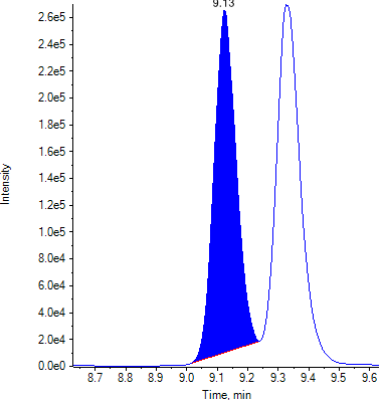
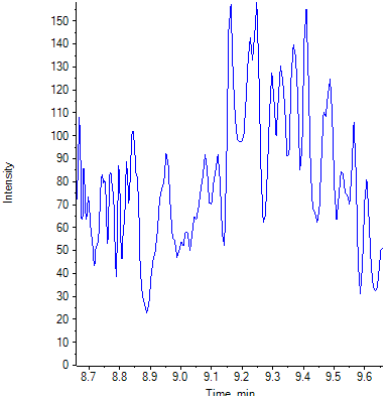
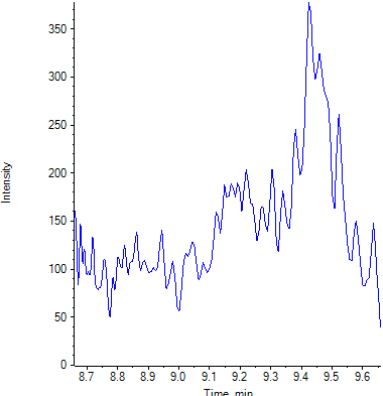
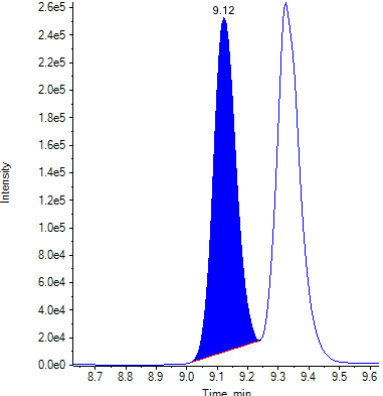
Identification Summary: Δ9-THC			
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 3	Δ9-THC 1	1.004 (Pass)	0.726 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Standard 4	Δ9-THC 1	1.004 (Pass)	0.710 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Standard 5	Δ9-THC 1	1.004 (Pass)	0.704 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Standard 6	Δ9-THC 1	1.004 (Pass)	0.703 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Low A	Δ9-THC 1	1.004 (Pass)	0.681 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Low B	Δ9-THC 1	1.004 (Pass)	0.665 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Low C	Δ9-THC 1	1.004 (Pass)	0.691 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Medium A	Δ9-THC 1	1.004 (Pass)	0.733 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Medium B	Δ9-THC 1	1.004 (Pass)	0.719 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Medium C	Δ9-THC 1	1.004 (Pass)	0.710 (Pass)
	Δ9-THC 2	1.004 (Pass)	
High A	Δ9-THC 1	1.004 (Pass)	0.713 (Pass)
	Δ9-THC 2	1.004 (Pass)	
High B	Δ9-THC 1	1.004 (Pass)	0.721 (Pass)
	Δ9-THC 2	1.004 (Pass)	
High C	Δ9-THC 1	1.004 (Pass)	0.708 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Negative	Δ9-THC 1	N/A ()	N/A ()
	Δ9-THC 2	N/A ()	
Standard 1 A	Δ9-THC 1	1.004 (Pass)	0.715 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Standard 1 B	Δ9-THC 1	1.004 (Pass)	0.720 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Standard 1 C	Δ9-THC 1	1.004 (Pass)	0.694 (Pass)
	Δ9-THC 2	1.004 (Pass)	

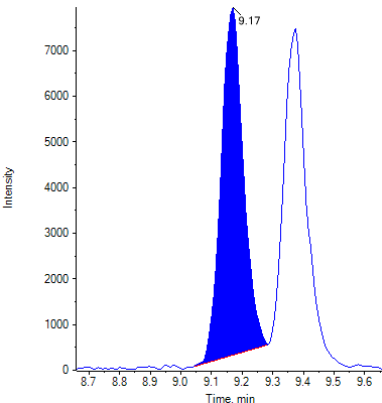
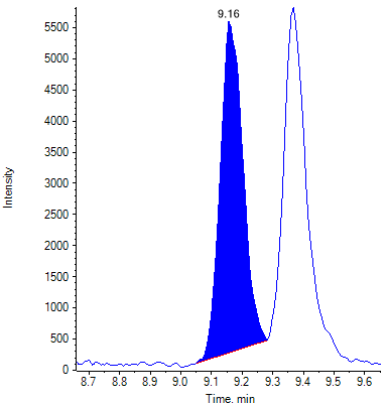
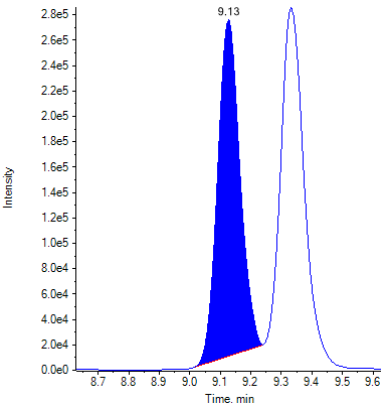
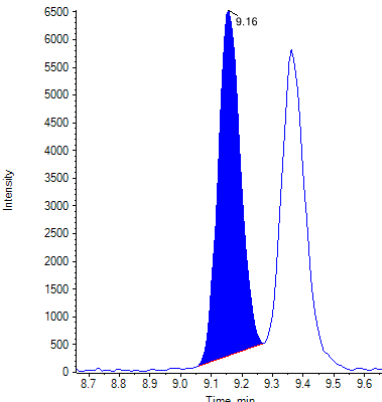
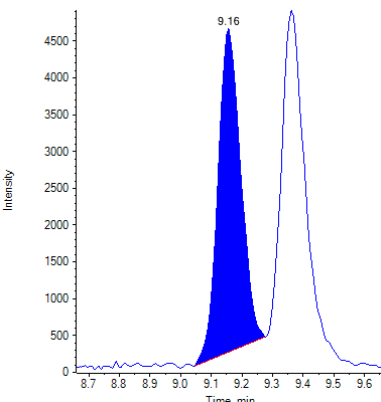
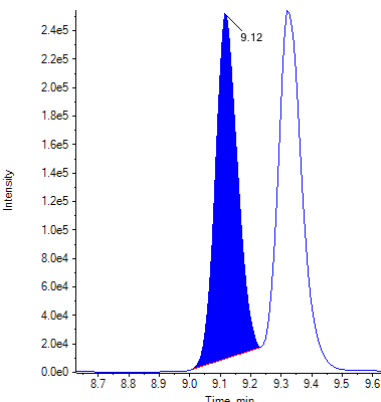
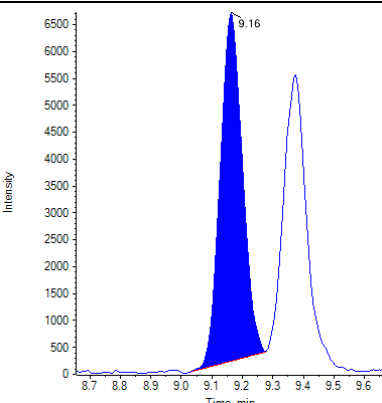
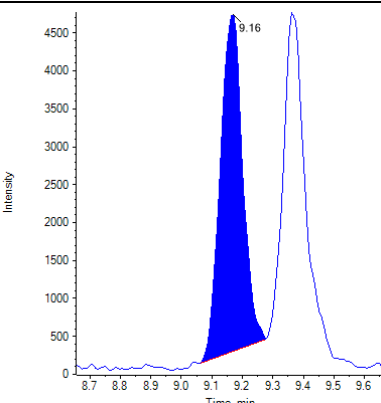
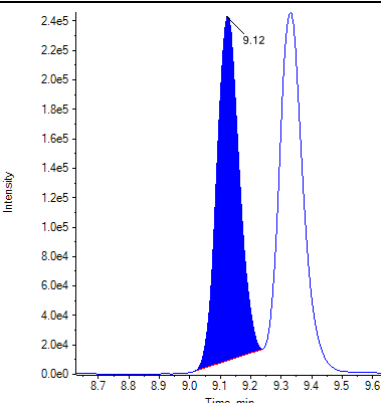
Peak Review			
Sample Name	Δ9-THC 1	Δ9-THC 2	Δ9-THC-D3

Peak Review			
Sample Name	$\Delta 9$ -THC 1	$\Delta 9$ -THC 2	$\Delta 9$ -THC-D3
Standard 1			
Standard 2			
Standard 3			
Standard 4			

Peak Review			
Sample Name	$\Delta 9$ -THC 1	$\Delta 9$ -THC 2	$\Delta 9$ -THC-D3
Standard 5			
Standard 6			
Low A			
Low B			

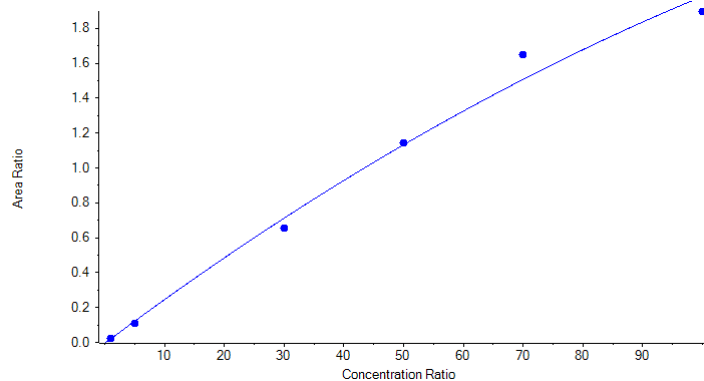
Peak Review			
Sample Name	$\Delta 9$ -THC 1	$\Delta 9$ -THC 2	$\Delta 9$ -THC-D3
Low C			
Medium A			
Medium B			
Medium C			

Peak Review			
Sample Name	$\Delta 9$ -THC 1	$\Delta 9$ -THC 2	$\Delta 9$ -THC-D3
High A			
High B			
High C			
Negative			

Peak Review			
Sample Name	$\Delta 9$ -THC 1	$\Delta 9$ -THC 2	$\Delta 9$ -THC-D3
Standard 1 A			
Standard 1 B			
Standard 1 C			

Calibration Summary: Δ8-THC

$$y = -5.74871e-5 x^2 + 0.02564 x - 0.00536 \quad (r = 0.99758) \quad (\text{weighting: } 1/x)$$

**Analyte Transition Mass**

Internal Standard	Δ8-THC-D3
I.S. Transition Mass	318.1 / 123.0
Δ8-THC 1	315.1 / 193.1
Δ8-THC 2	315.1 / 123.1

Relative Retention time: Expected (Acceptance Range)

Δ8-THC 1	1.004 (0.979-1.029)
Δ8-THC 2	1.004 (0.979-1.029)

Ion Ratio: Expected (Acceptance Range)

Δ8-THC 2	0.780 (0.624-0.936)
Δ8-THC comment	

Quantitative Summary: Δ8-THC

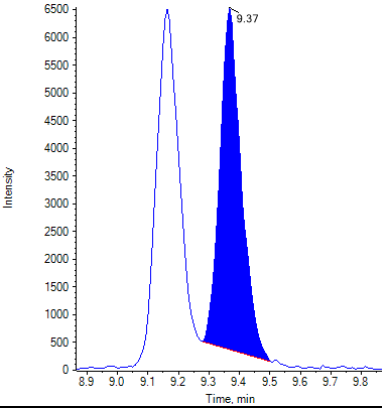
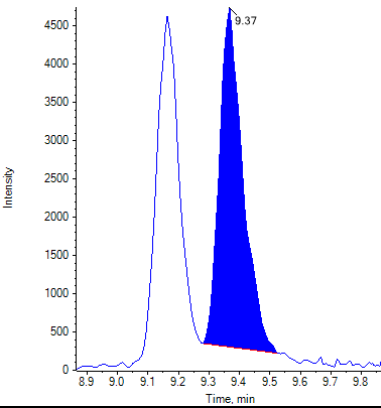
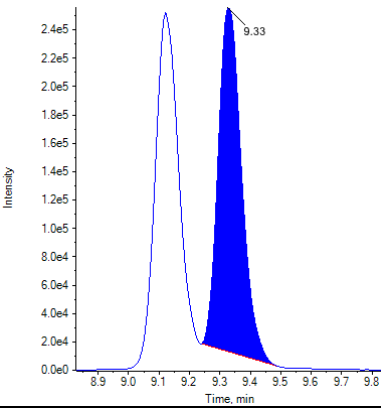
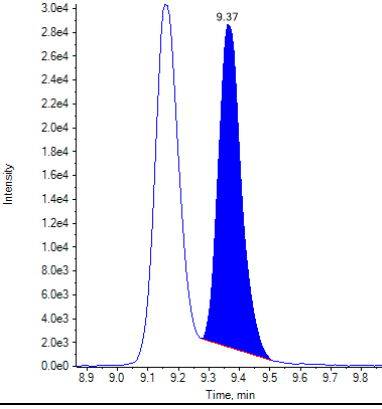
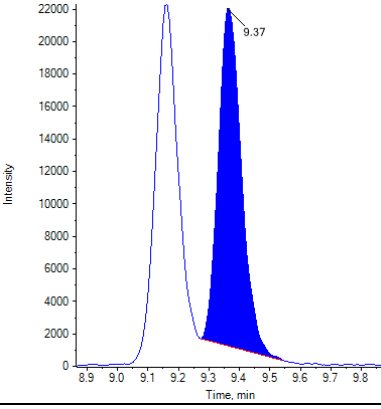
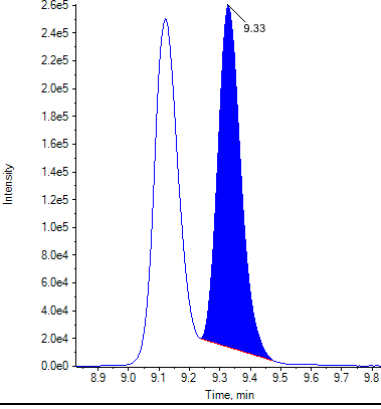
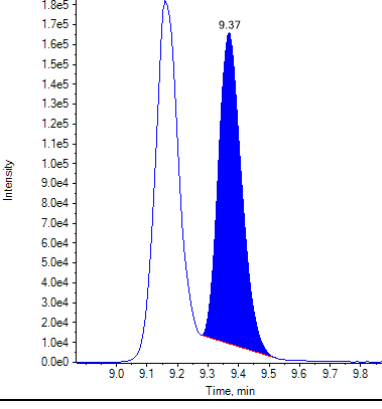
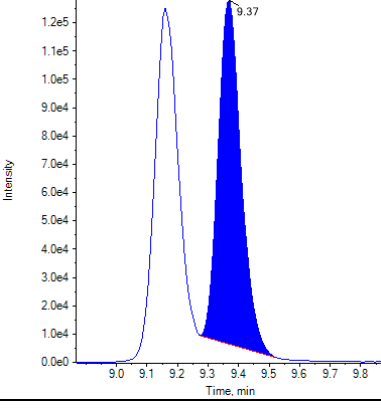
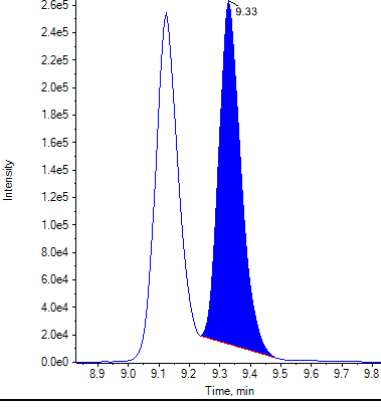
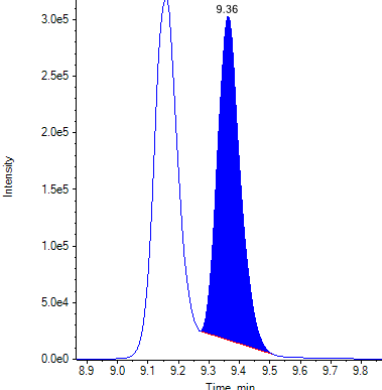
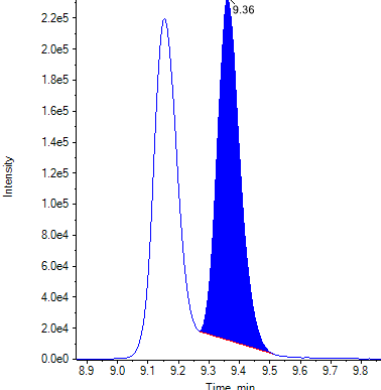
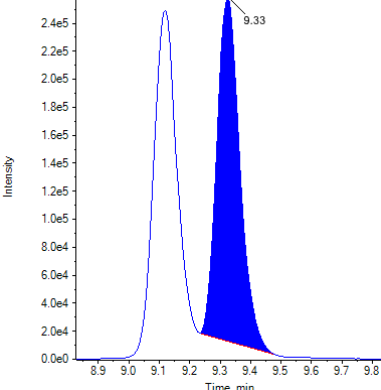
Sample Name	Area Ratio	Actual Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
Standard 1	0.0231	1.00	1.113	111.28
Standard 2	0.1095	5.00	4.525	90.51
Standard 3	0.6571	30.00	27.543	91.81
Standard 4	1.1408	50.00	50.404	100.81
Standard 5	1.6504	70.00	78.351	111.93
Standard 6	1.8964	100.00	93.994	93.99
Low A	0.0691	3.00	2.924	97.47
Low B	0.0676	3.00	2.863	95.44
Low C	0.0648	3.00	2.752	91.74
Medium A	0.9518	40.00	41.130	102.83
Medium B	0.9084	40.00	39.063	97.66
Medium C	0.9284	40.00	40.014	100.04
High A	1.9118	80.00	95.036	118.80
High B	1.8959	80.00	93.960	117.45
High C	1.8313	80.00	89.674	112.09
Negative	N/A	0.00	N/A	N/A
Standard 1 A	0.0229	1.00	1.106	110.57
Standard 1 B	0.0204	1.00	1.009	100.88
Standard 1 C	0.0215	1.00	1.049	104.94

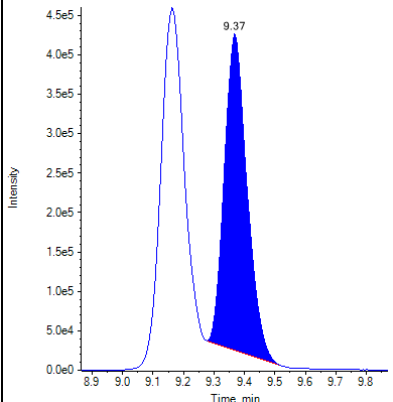
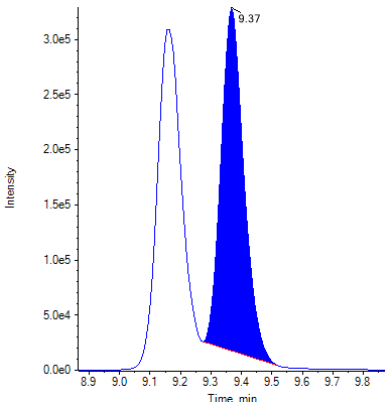
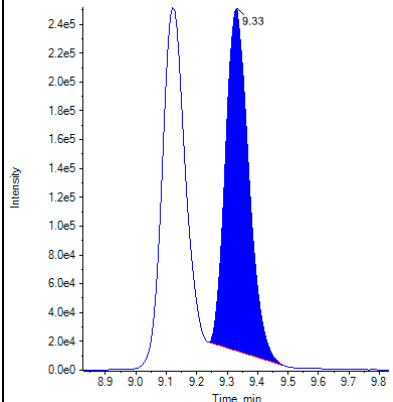
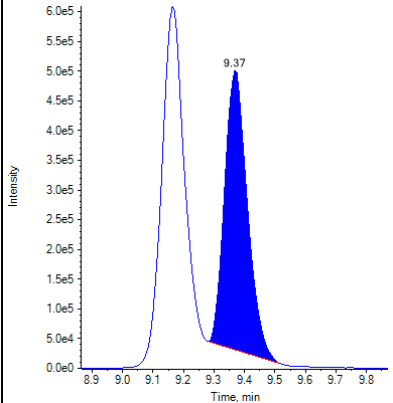
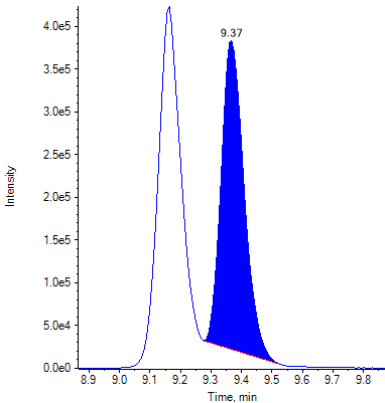
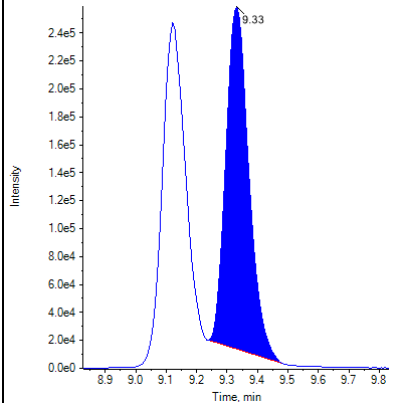
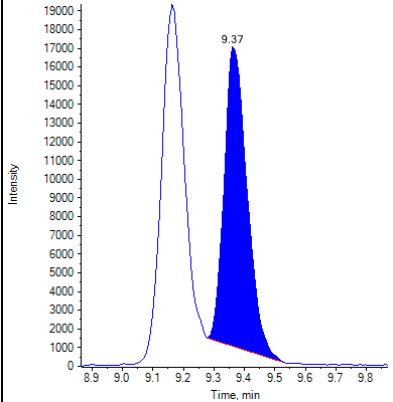
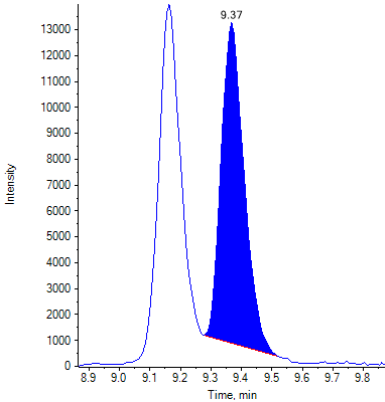
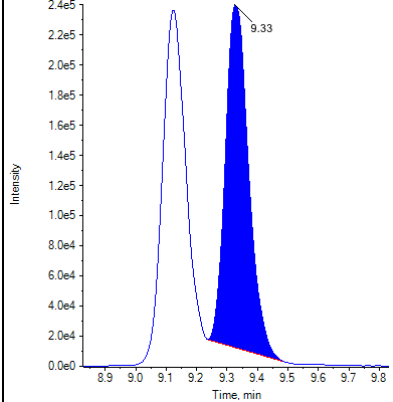
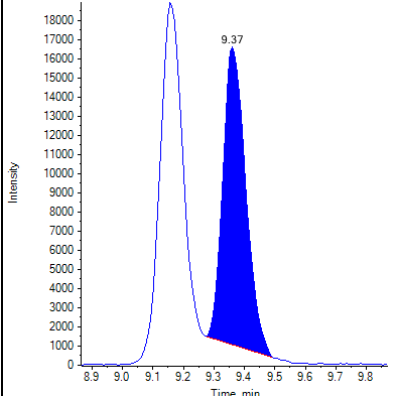
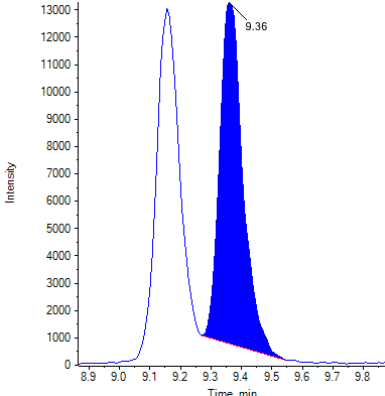
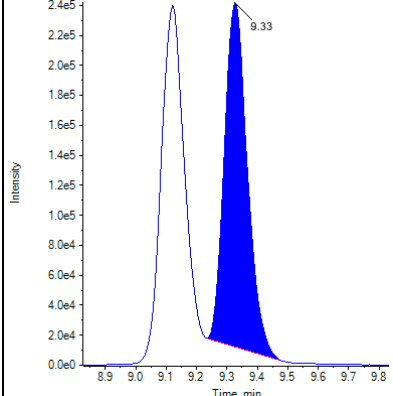
Identification Summary: Δ8-THC

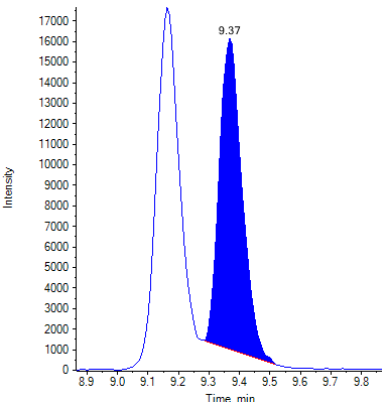
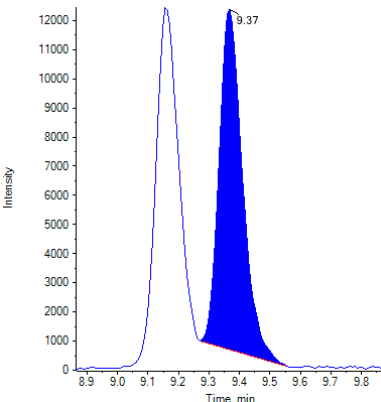
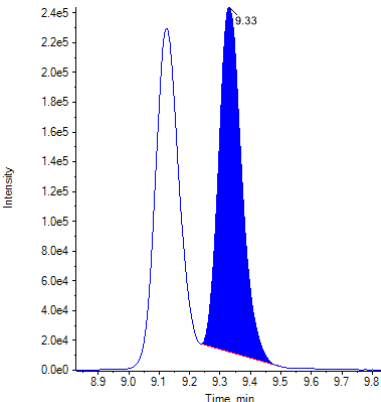
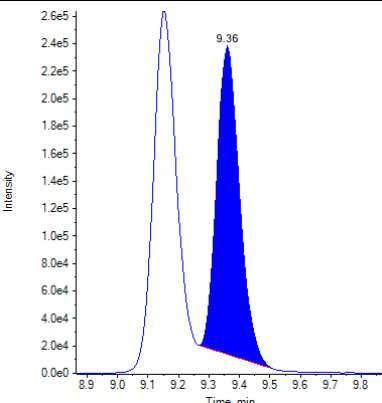
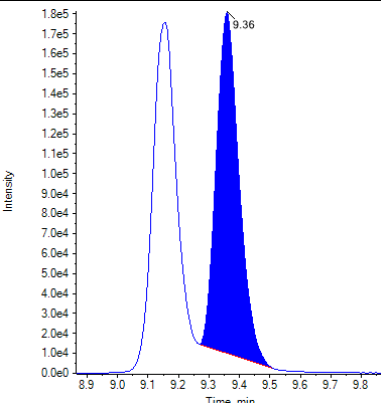
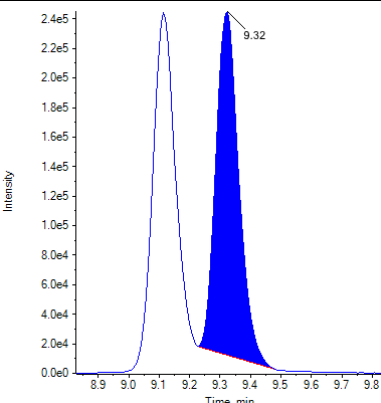
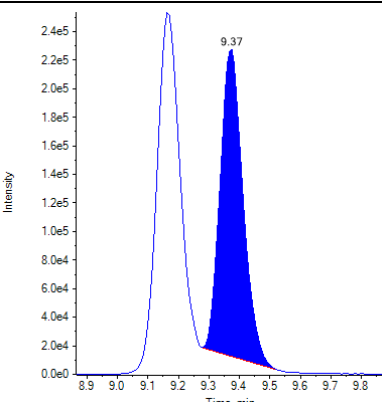
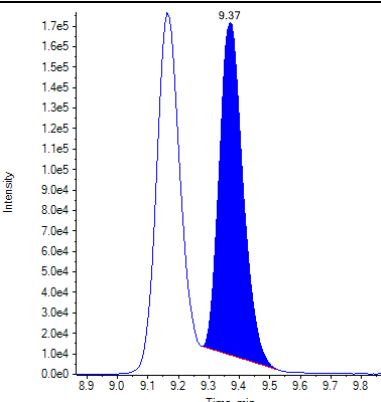
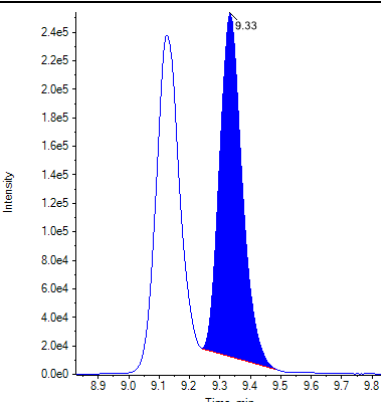
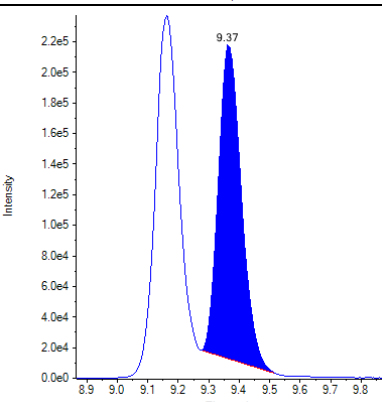
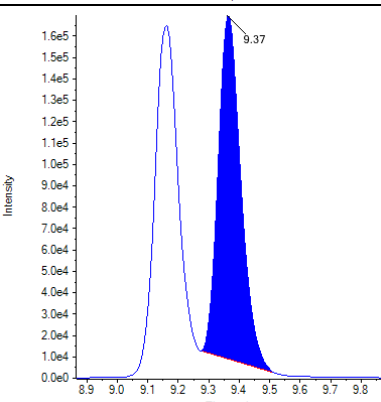
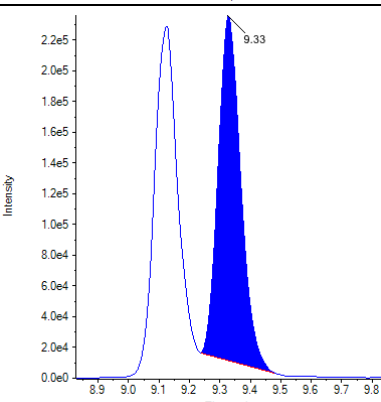
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 1	Δ8-THC 1	1.004 (Pass)	0.796 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Standard 2	Δ8-THC 1	1.004 (Pass)	0.782 (Pass)
	Δ8-THC 2	1.004 (Pass)	

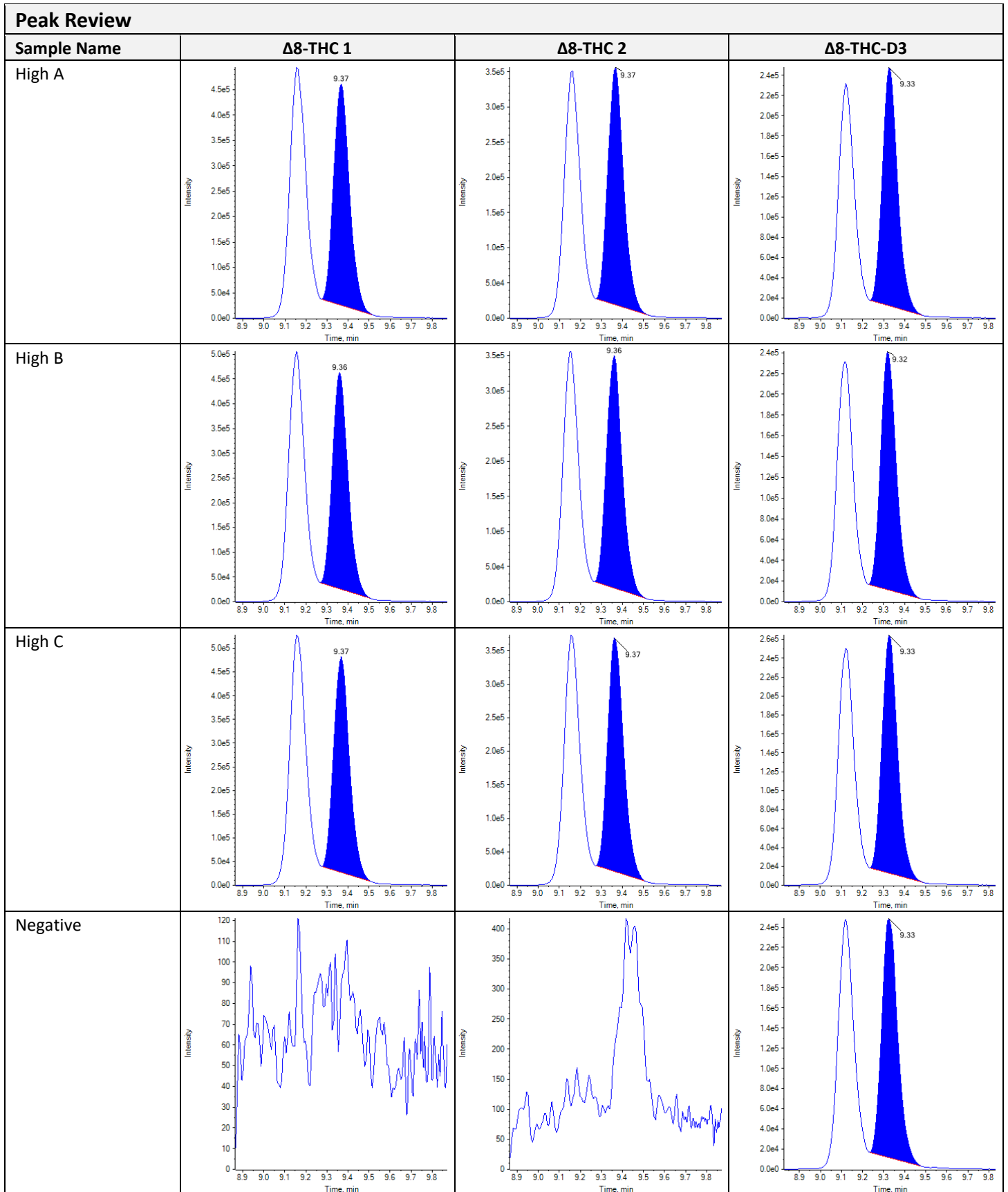
Identification Summary: Δ8-THC			
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 3	Δ8-THC 1	1.004 (Pass)	0.773 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Standard 4	Δ8-THC 1	1.004 (Pass)	0.773 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Standard 5	Δ8-THC 1	1.004 (Pass)	0.782 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Standard 6	Δ8-THC 1	1.004 (Pass)	0.775 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Low A	Δ8-THC 1	1.004 (Pass)	0.777 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Low B	Δ8-THC 1	1.004 (Pass)	0.817 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Low C	Δ8-THC 1	1.004 (Pass)	0.796 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Medium A	Δ8-THC 1	1.004 (Pass)	0.762 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Medium B	Δ8-THC 1	1.004 (Pass)	0.776 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Medium C	Δ8-THC 1	1.004 (Pass)	0.773 (Pass)
	Δ8-THC 2	1.004 (Pass)	
High A	Δ8-THC 1	1.004 (Pass)	0.773 (Pass)
	Δ8-THC 2	1.004 (Pass)	
High B	Δ8-THC 1	1.004 (Pass)	0.764 (Pass)
	Δ8-THC 2	1.004 (Pass)	
High C	Δ8-THC 1	1.004 (Pass)	0.774 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Negative	Δ8-THC 1	N/A ()	N/A ()
	Δ8-THC 2	N/A ()	
Standard 1 A	Δ8-THC 1	1.004 (Pass)	0.820 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Standard 1 B	Δ8-THC 1	1.004 (Pass)	0.865 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Standard 1 C	Δ8-THC 1	1.004 (Pass)	0.766 (Pass)
	Δ8-THC 2	1.004 (Pass)	

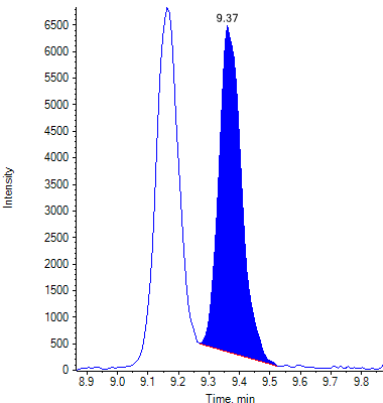
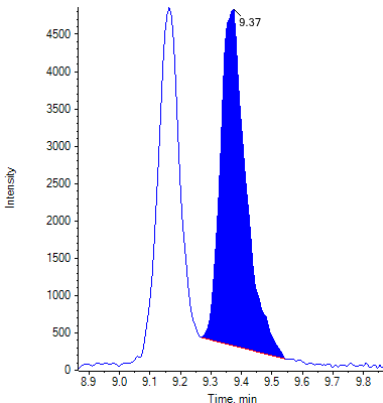
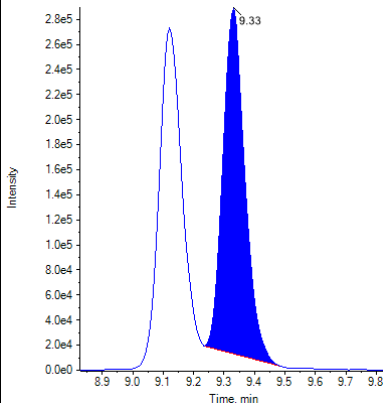
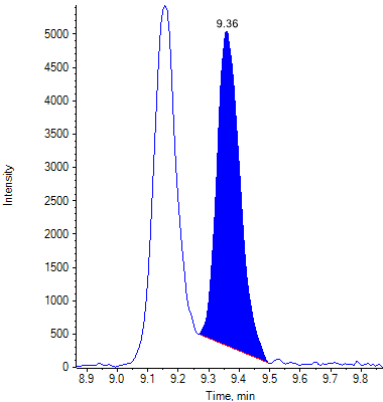
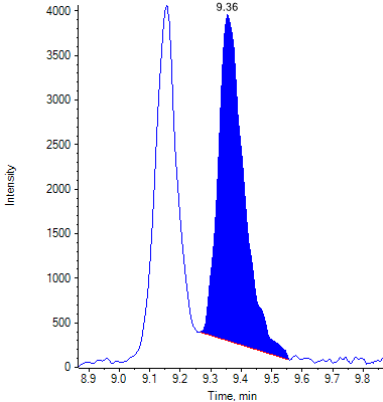
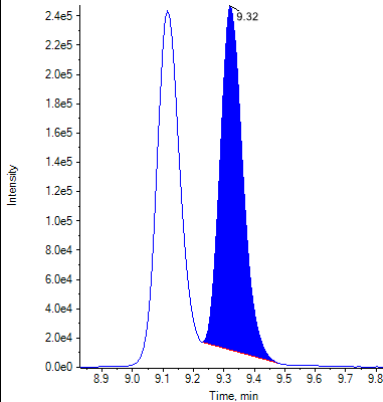
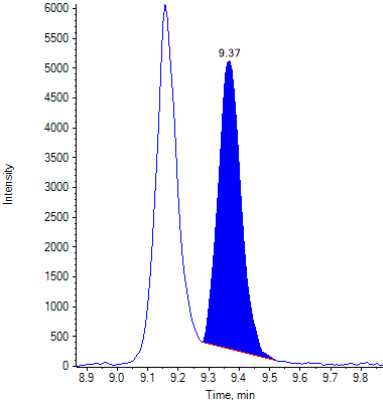
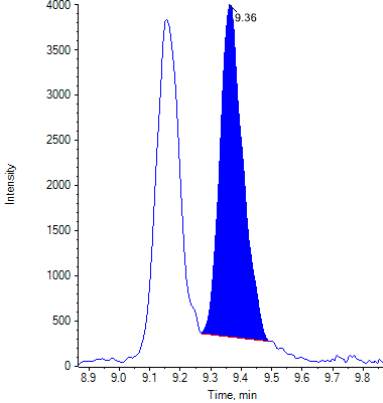
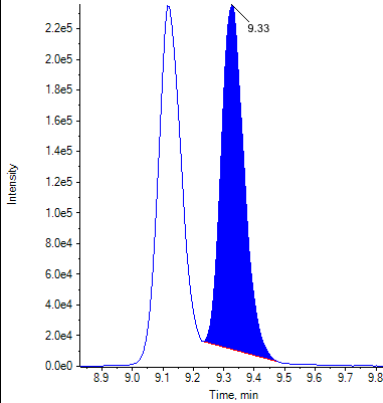
Peak Review			
Sample Name	Δ8-THC 1	Δ8-THC 2	Δ8-THC-D3

Peak Review			
Sample Name	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2	$\Delta 8$ -THC-D3
Standard 1			
Standard 2			
Standard 3			
Standard 4			

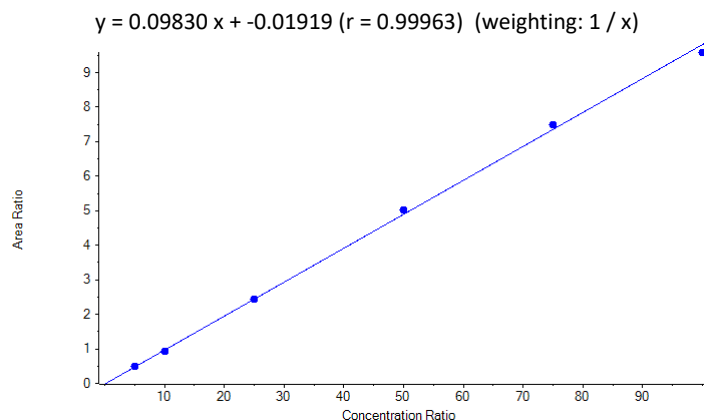
Peak Review			
Sample Name	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2	$\Delta 8$ -THC-D3
Standard 5			
Standard 6			
Low A			
Low B			

Peak Review			
Sample Name	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2	$\Delta 8$ -THC-D3
Low C			
Medium A			
Medium B			
Medium C			



Peak Review			
Sample Name	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2	$\Delta 8$ -THC-D3
Standard 1 A			
Standard 1 B			
Standard 1 C			

Calibration Summary: THC-COOH



Analyte Transition Mass	
Internal Standard	THC-COOH-D3
I.S. Transition Mass	346.0 / 194.0
THC-COOH 1	343.0 / 299.1
THC-COOH 2	343.0 / 191.0
Relative Retention time: Expected (Acceptance Range)	
THC-COOH 1	1.007 (0.982-1.032)
THC-COOH 2	1.007 (0.982-1.032)
Ion Ratio: Expected (Acceptance Range)	
THC-COOH 2	0.184 (0.147-0.221)
THC-COOH comment	

Quantitative Summary: THC-COOH

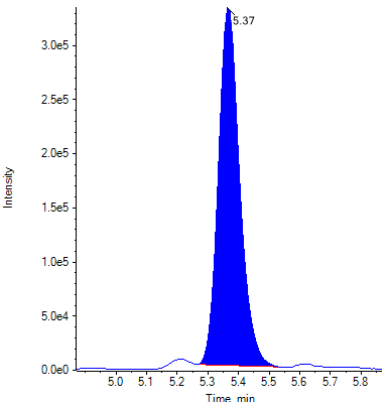
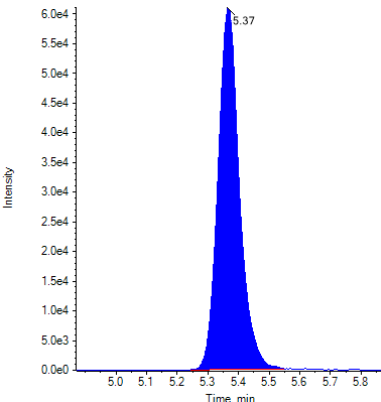
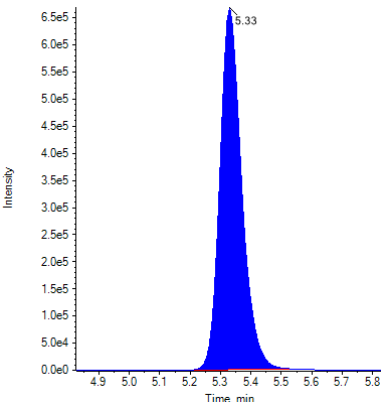
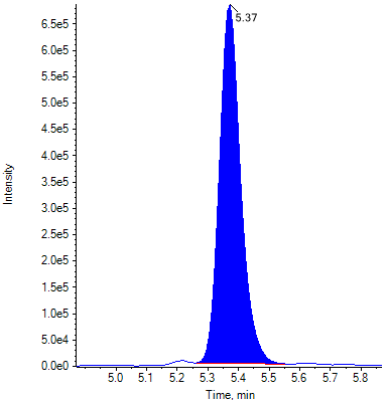
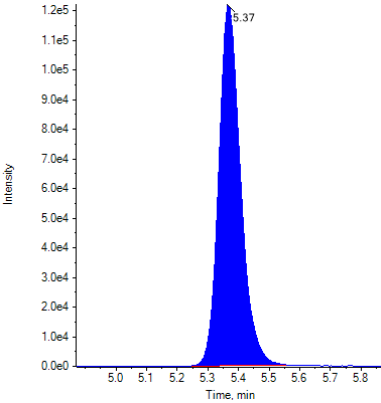
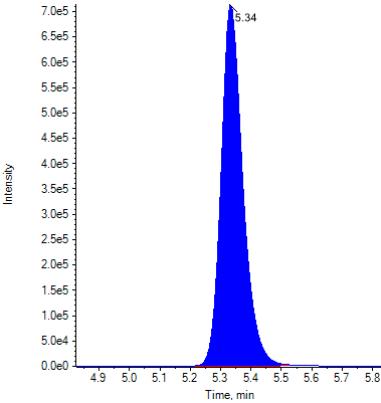
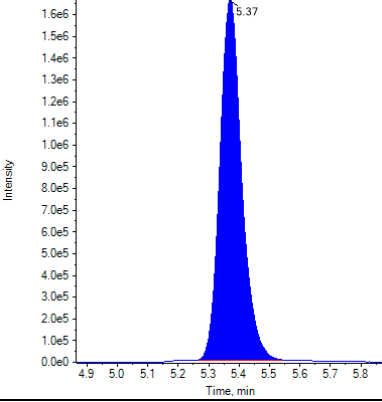
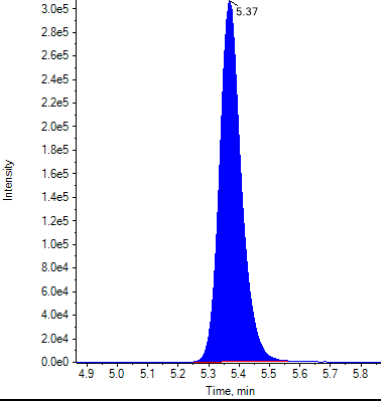
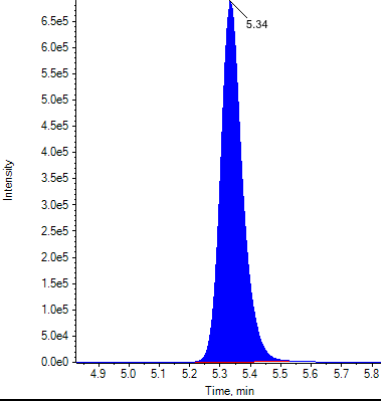
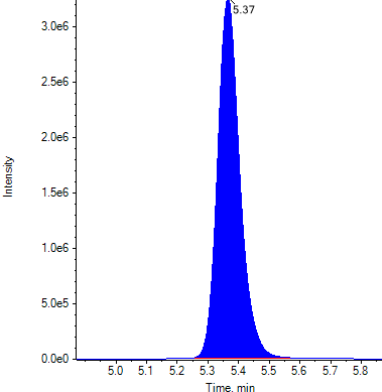
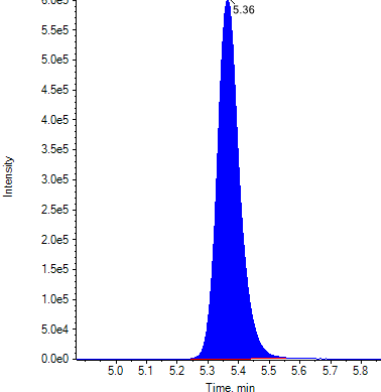
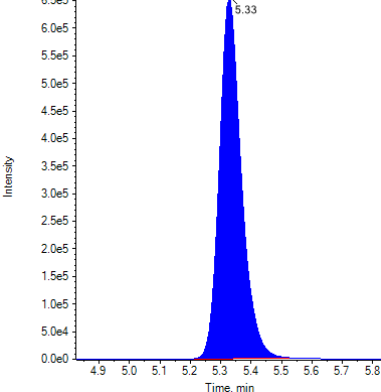
Sample Name	Area Ratio	Actual Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
Standard 1	0.4810	5.00	5.088	101.76
Standard 2	0.9281	10.00	9.637	96.37
Standard 3	2.4359	25.00	24.976	99.91
Standard 4	5.0097	50.00	51.160	102.32
Standard 5	7.5003	75.00	76.497	102.00
Standard 6	9.5786	100.00	97.641	97.64
Low A	0.7749	8.00	8.079	100.99
Low B	0.7539	8.00	7.865	98.31
Low C	0.7368	8.00	7.690	96.13
Medium A	4.1790	40.00	42.709	106.77
Medium B	4.0443	40.00	41.339	103.35
Medium C	4.0312	40.00	41.206	103.01
High A	7.3714	80.00	75.186	93.98
High B	7.4041	80.00	75.519	94.40
High C	7.0843	80.00	72.266	90.33
Negative	N/A	0.00	N/A	N/A
Standard 1 A	0.4722	5.00	4.999	99.98
Standard 1 B	0.4508	5.00	4.781	95.63
Standard 1 C	0.4637	5.00	4.912	98.25

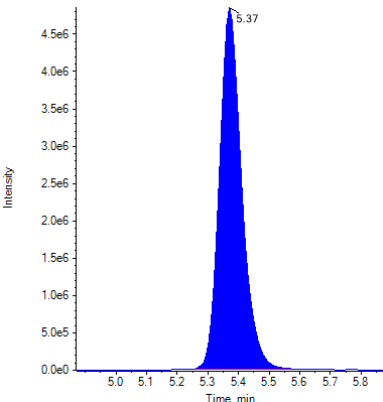
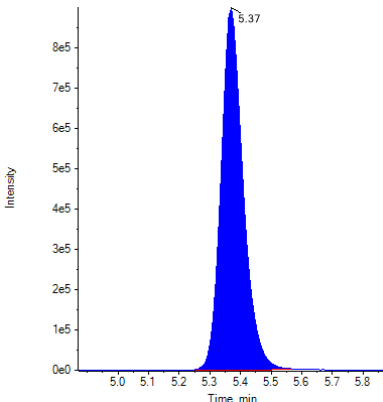
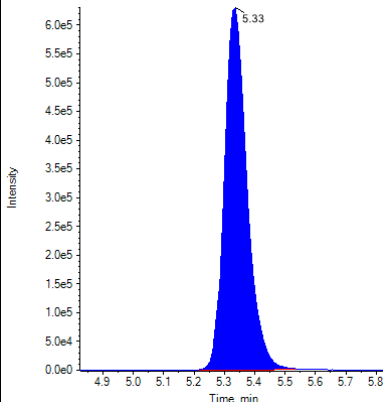
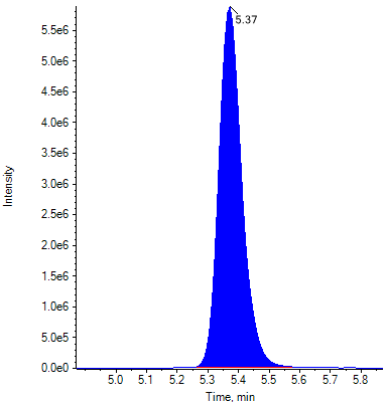
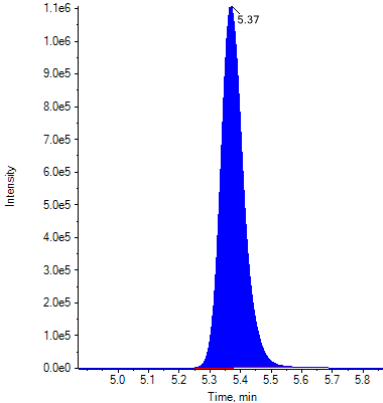
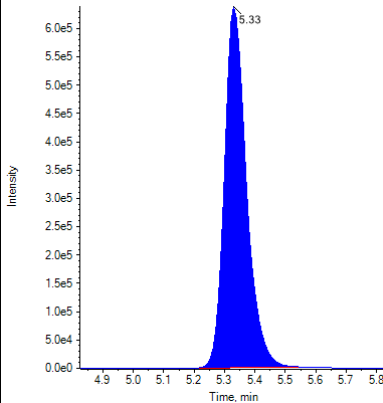
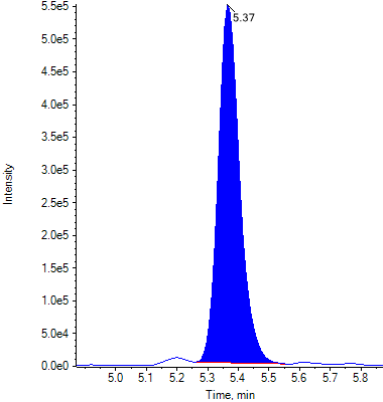
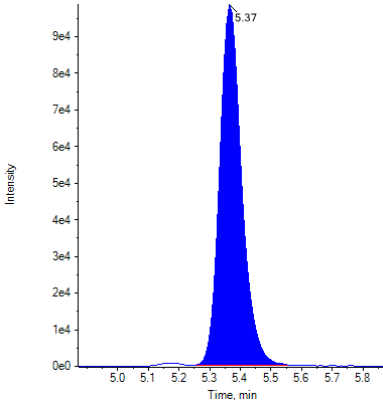
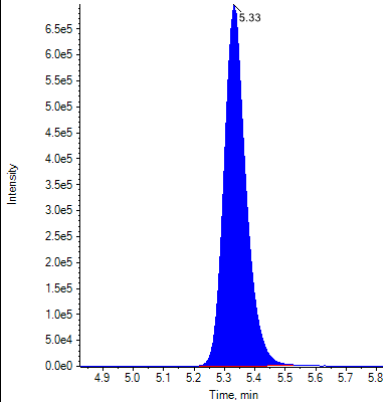
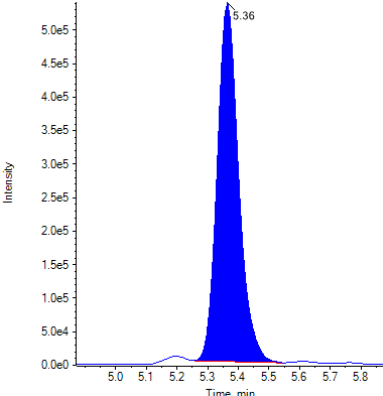
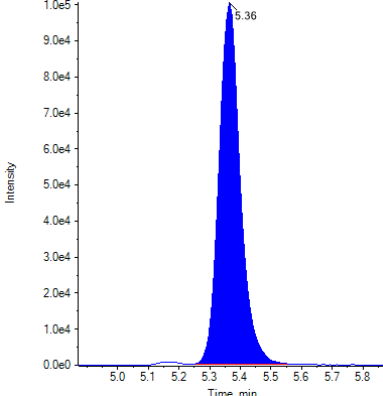
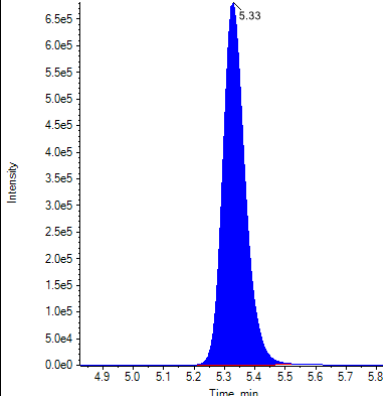
Identification Summary: THC-COOH

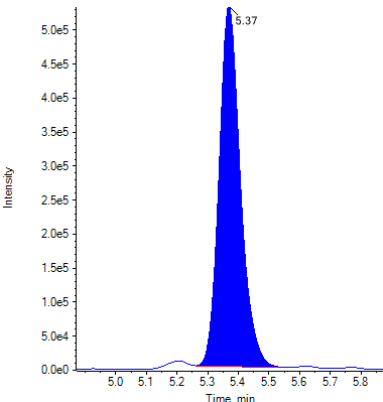
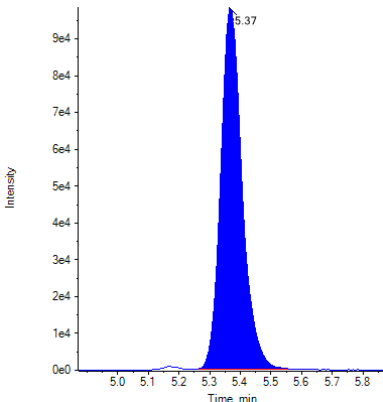
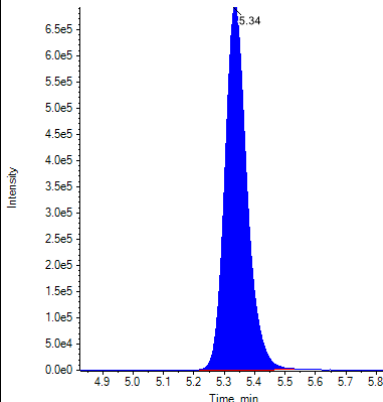
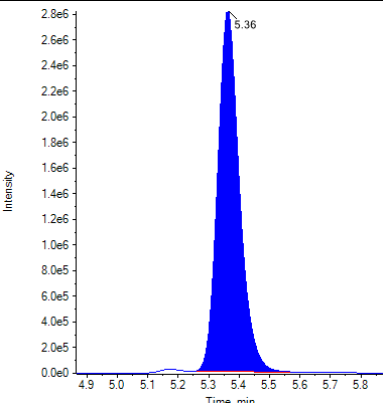
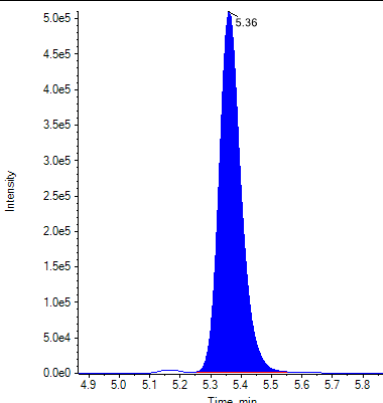
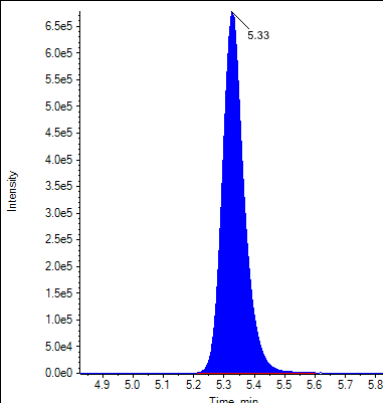
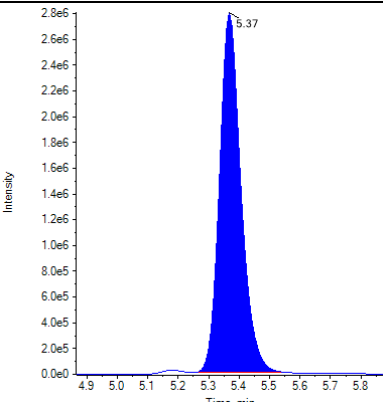
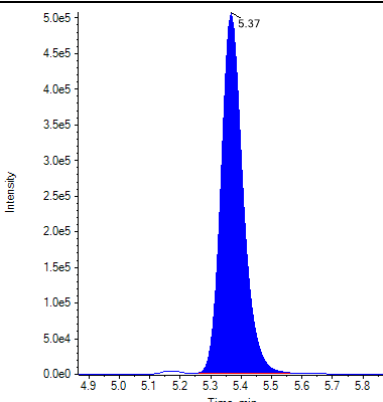
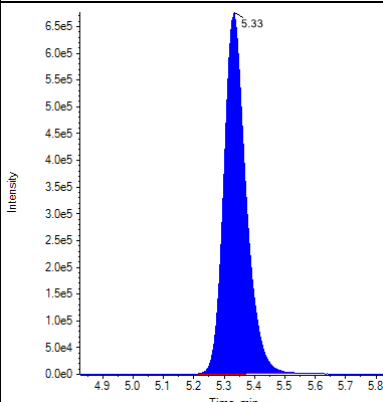
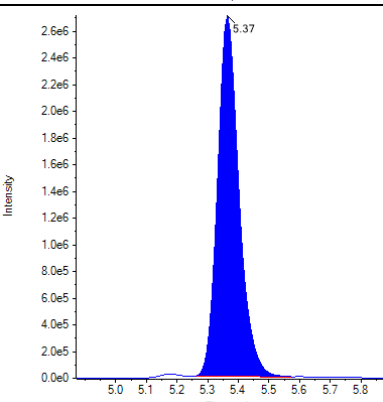
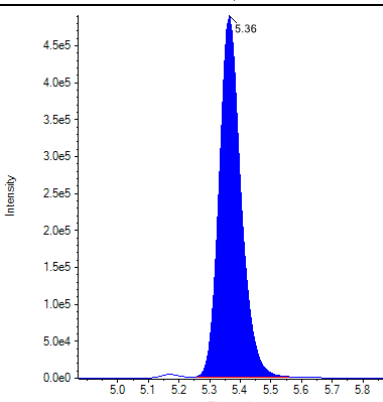
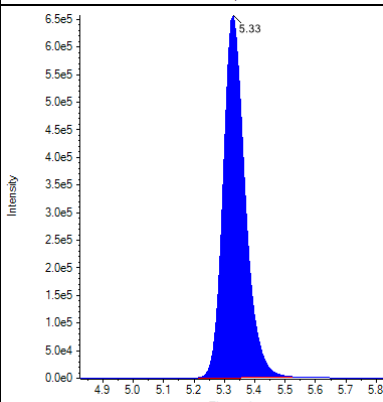
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 1	THC-COOH 1	1.007 (Pass)	0.185 (Pass)
	THC-COOH 2	1.007 (Pass)	
Standard 2	THC-COOH 1	1.007 (Pass)	0.183 (Pass)

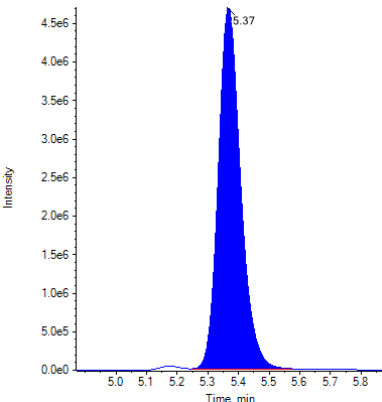
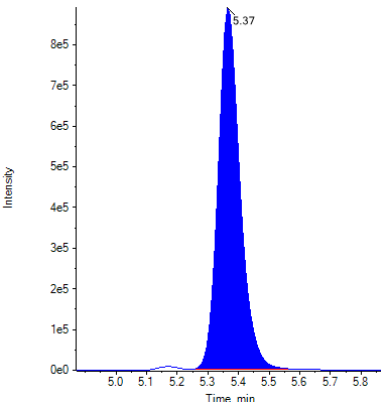
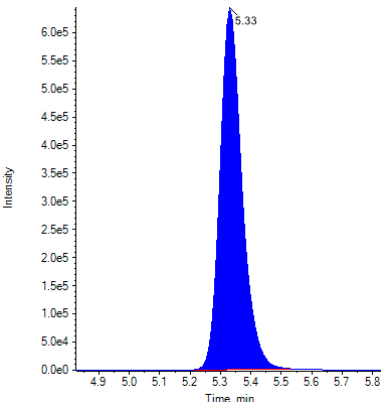
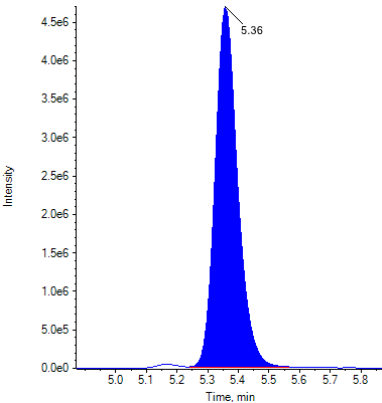
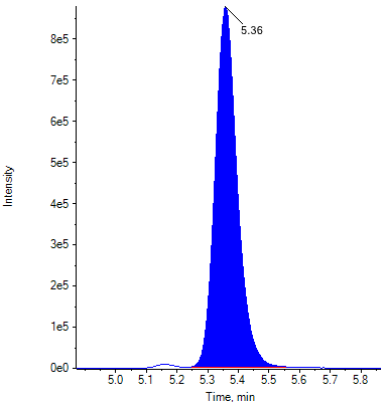
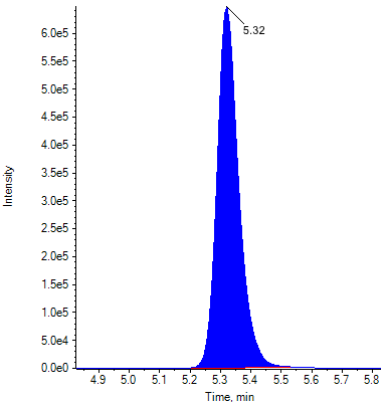
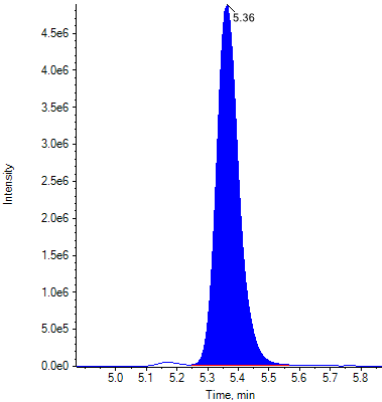
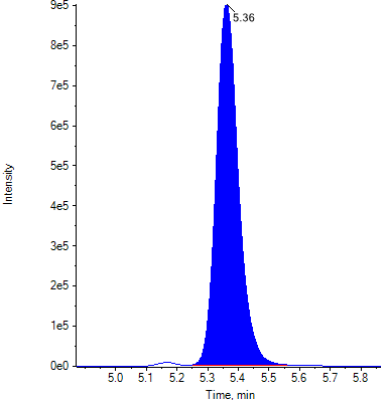
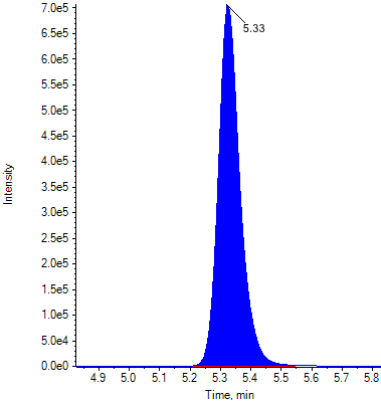
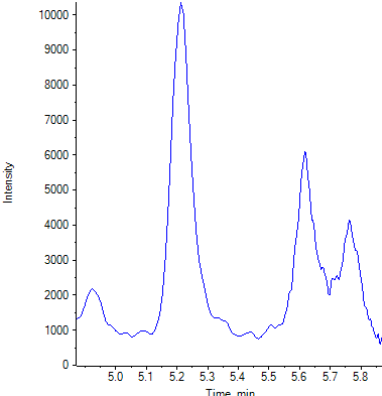
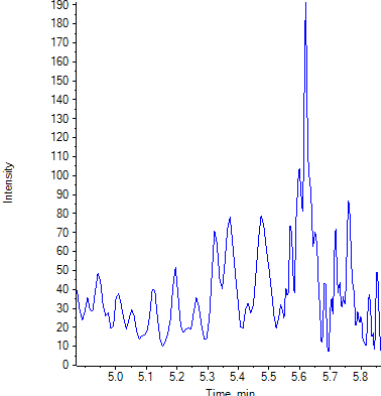
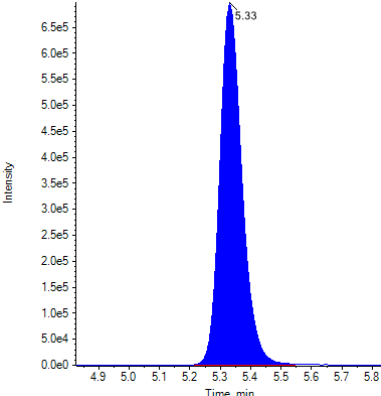
Identification Summary: THC-COOH			
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
	THC-COOH 2	1.006 (Pass)	
Standard 3	THC-COOH 1	1.007 (Pass)	0.182 (Pass)
	THC-COOH 2	1.006 (Pass)	
Standard 4	THC-COOH 1	1.007 (Pass)	0.184 (Pass)
	THC-COOH 2	1.007 (Pass)	
Standard 5	THC-COOH 1	1.007 (Pass)	0.185 (Pass)
	THC-COOH 2	1.007 (Pass)	
Standard 6	THC-COOH 1	1.007 (Pass)	0.186 (Pass)
	THC-COOH 2	1.007 (Pass)	
Low A	THC-COOH 1	1.007 (Pass)	0.184 (Pass)
	THC-COOH 2	1.006 (Pass)	
Low B	THC-COOH 1	1.007 (Pass)	0.186 (Pass)
	THC-COOH 2	1.006 (Pass)	
Low C	THC-COOH 1	1.006 (Pass)	0.186 (Pass)
	THC-COOH 2	1.006 (Pass)	
Medium A	THC-COOH 1	1.007 (Pass)	0.181 (Pass)
	THC-COOH 2	1.006 (Pass)	
Medium B	THC-COOH 1	1.007 (Pass)	0.184 (Pass)
	THC-COOH 2	1.007 (Pass)	
Medium C	THC-COOH 1	1.007 (Pass)	0.183 (Pass)
	THC-COOH 2	1.007 (Pass)	
High A	THC-COOH 1	1.007 (Pass)	0.185 (Pass)
	THC-COOH 2	1.007 (Pass)	
High B	THC-COOH 1	1.007 (Pass)	0.185 (Pass)
	THC-COOH 2	1.007 (Pass)	
High C	THC-COOH 1	1.007 (Pass)	0.185 (Pass)
	THC-COOH 2	1.007 (Pass)	
Negative	THC-COOH 1	N/A ()	N/A ()
	THC-COOH 2	N/A ()	
Standard 1 A	THC-COOH 1	1.007 (Pass)	0.185 (Pass)
	THC-COOH 2	1.006 (Pass)	
Standard 1 B	THC-COOH 1	1.007 (Pass)	0.187 (Pass)
	THC-COOH 2	1.006 (Pass)	
Standard 1 C	THC-COOH 1	1.006 (Pass)	0.188 (Pass)
	THC-COOH 2	1.006 (Pass)	

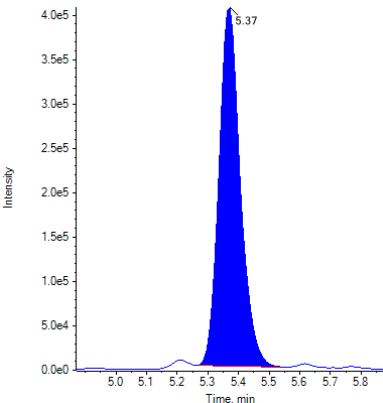
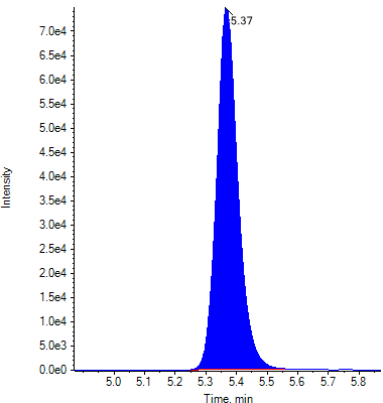
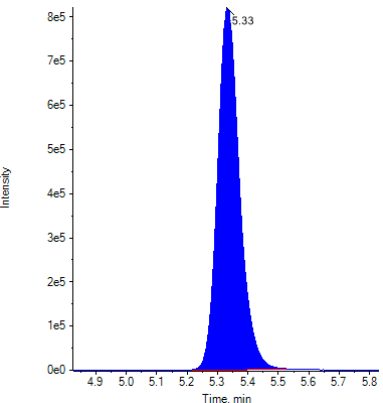
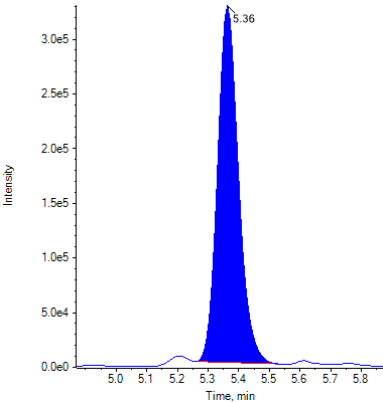
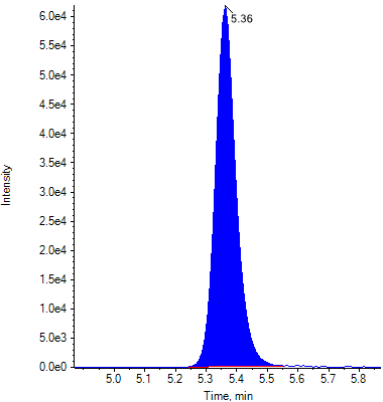
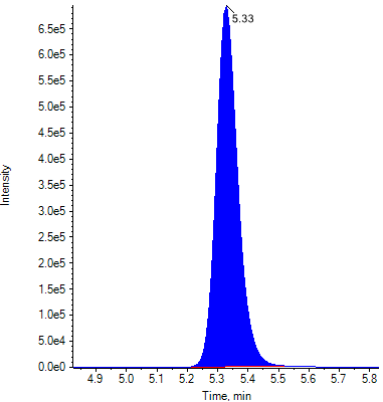
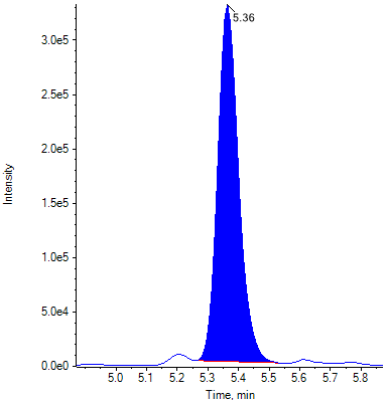
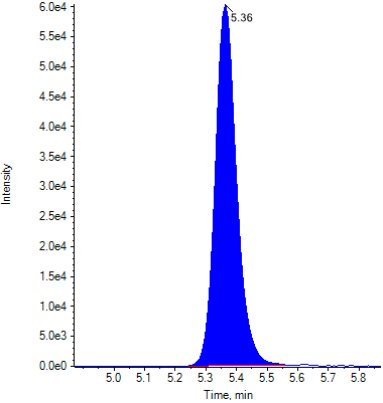
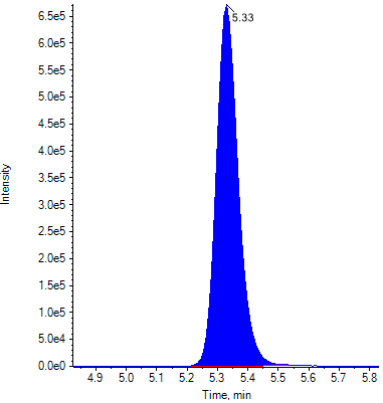
Peak Review			
Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3

Peak Review			
Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3
Standard 1			
Standard 2			
Standard 3			
Standard 4			

Peak Review			
Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3
Standard 5			
Standard 6			
Low A			
Low B			

Peak Review			
Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3
Low C			
Medium A			
Medium B			
Medium C			

Peak Review			
Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3
High A			
High B			
High C			
Negative			

Peak Review			
Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3
Standard 1 A			
Standard 1 B			
Standard 1 C			



Toxicology Unit
Calibration/Control Report
Quantitative Analysis

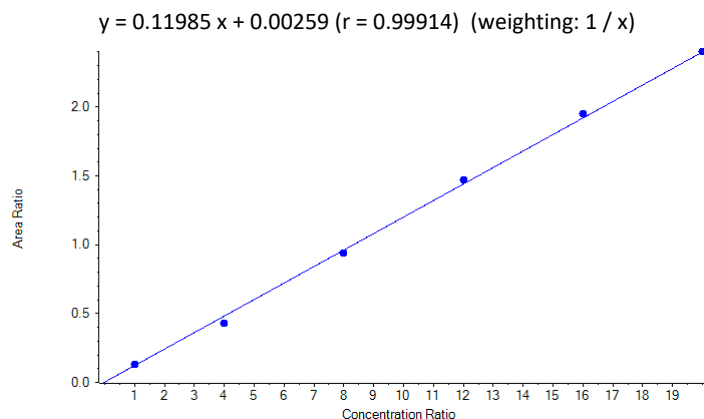
Batch Summary

Acquisition Method	THC.dam
Project	THC
Result Table	20220915SK

Result Table List

Sample Name	Sample Type	Position	Acquisition Time	Sample Comment
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Standard 2	Standard	14	09/15/2022 11:01:54	
Standard 3	Standard	15	09/15/2022 11:15:59	
Standard 4	Standard	16	09/15/2022 11:30:04	
Standard 5	Standard	17	09/15/2022 11:44:10	
Standard 6	Standard	18	09/15/2022 11:58:15	
Low A	Quality Control	19	09/15/2022 12:12:21	
Low B	Quality Control	20	09/15/2022 12:26:26	
Low C	Quality Control	21	09/15/2022 12:40:31	
Medium A	Quality Control	22	09/15/2022 12:54:37	
Medium B	Quality Control	23	09/15/2022 13:08:42	
Medium C	Quality Control	24	09/15/2022 13:22:48	
High A	Quality Control	25	09/15/2022 13:36:53	
High B	Quality Control	26	09/15/2022 13:50:59	
High C	Quality Control	27	09/15/2022 14:05:04	
Negative	Quality Control	28	09/15/2022 14:19:09	
Standard 1 A	Quality Control	29	09/15/2022 14:33:15	
Standard 1 B	Quality Control	30	09/15/2022 14:47:20	
Standard 1 C	Quality Control	31	09/15/2022 15:01:25	

Calibration Summary: THC-OH



Analyte Transition Mass	
Internal Standard	THC-OH-D3
I.S. Transition Mass	334.1 / 196.1
THC-OH 1	331.1 / 193.1
THC-OH 2	331.1 / 105.1
Relative Retention time: Expected (Acceptance Range)	
THC-OH 1	1.007 (0.982-1.032)
THC-OH 2	1.006 (0.981-1.031)
Ion Ratio: Expected (Acceptance Range)	
THC-OH 2	0.685 (0.548-0.822)
THC-OH comment	

Quantitative Summary: THC-OH

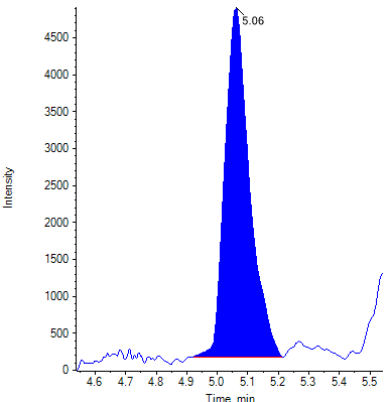
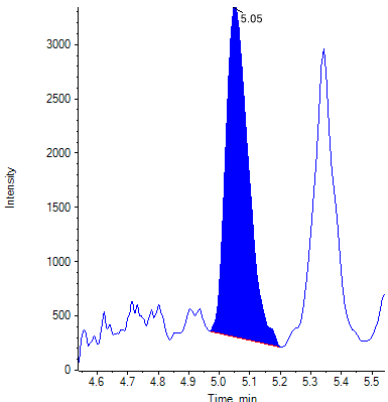
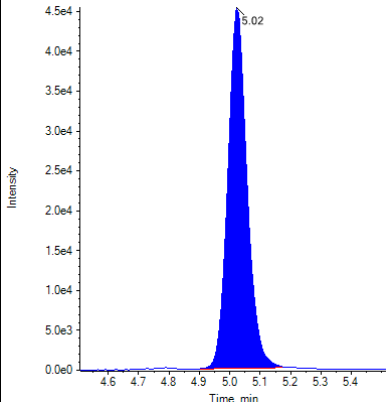
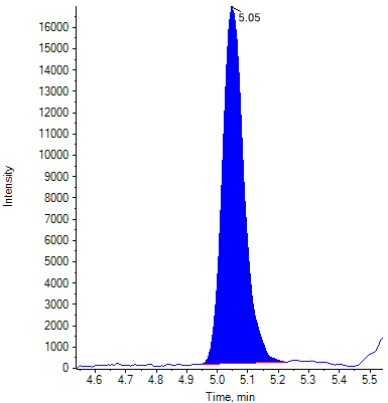
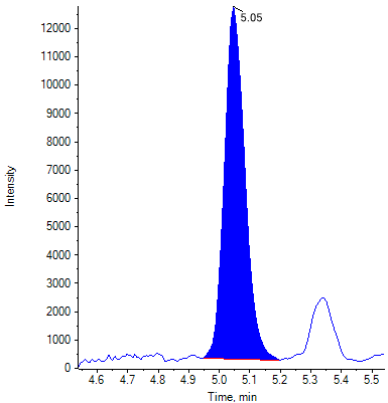
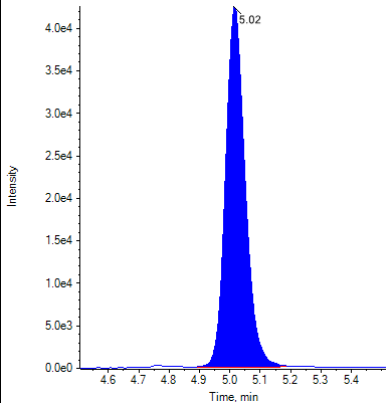
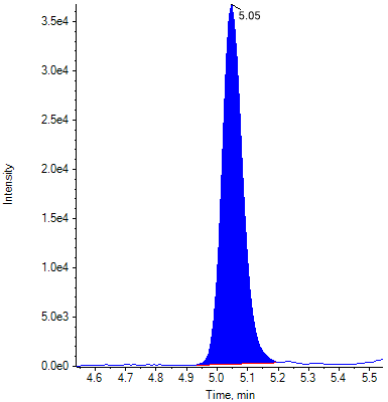
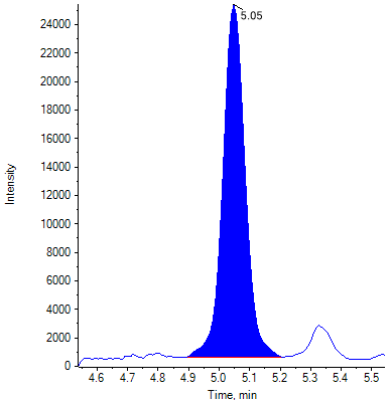
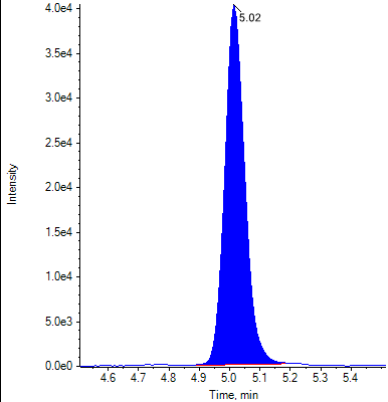
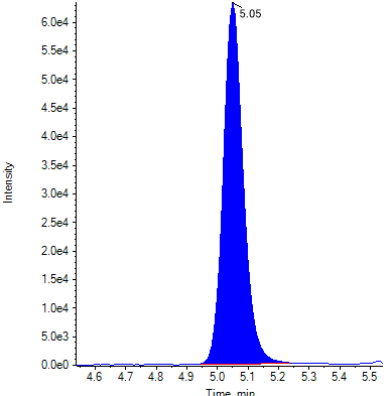
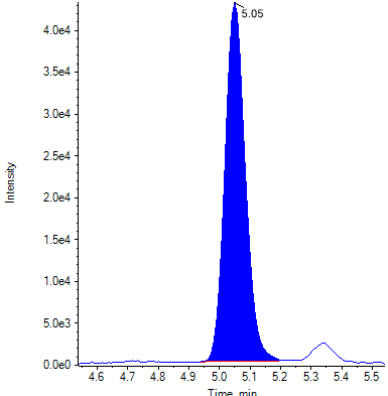
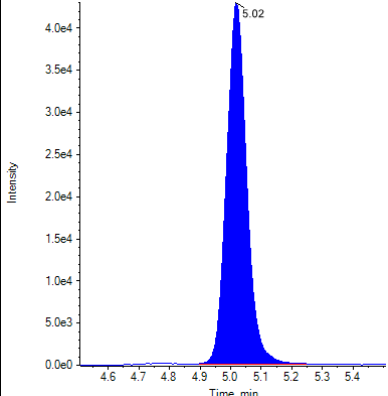
Sample Name	Area Ratio	Actual Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
Standard 1	0.1334	1.00	1.092	109.17
Standard 2	0.4315	4.00	3.579	89.48
Standard 3	0.9388	8.00	7.812	97.65
Standard 4	1.4699	12.00	12.243	102.03
Standard 5	1.9495	16.00	16.245	101.53
Standard 6	2.4030	20.00	20.029	100.15
Low A	0.2217	2.00	1.828	91.41
Low B	0.2360	2.00	1.947	97.37
Low C	0.2183	2.00	1.800	89.99
Medium A	1.1552	10.00	9.617	96.17
Medium B	1.1478	10.00	9.556	95.56
Medium C	1.1833	10.00	9.852	98.52
High A	2.0030	18.00	16.692	92.73
High B	2.0040	18.00	16.700	92.78
High C	1.8595	18.00	15.494	86.08
Negative	N/A	0.00	N/A	N/A
Standard 1 A	0.1226	1.00	1.002	100.17
Standard 1 B	0.1171	1.00	0.955	95.53
Standard 1 C	0.1166	1.00	0.952	95.17

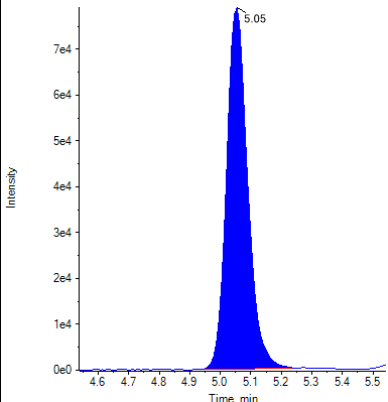
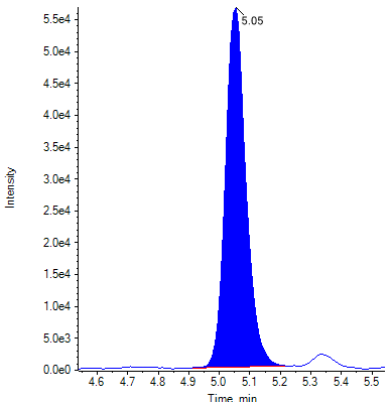
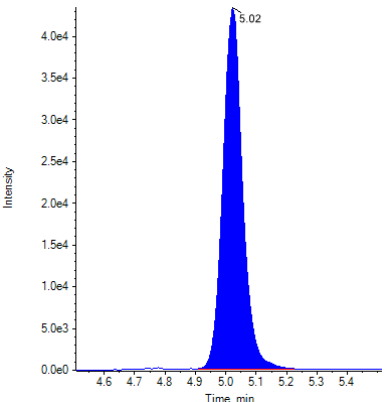
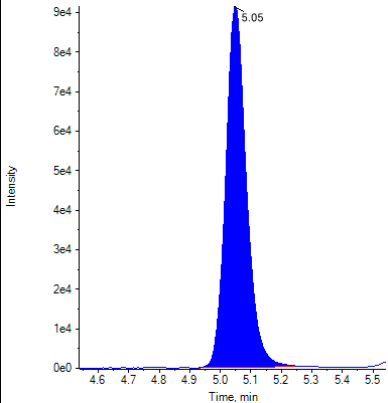
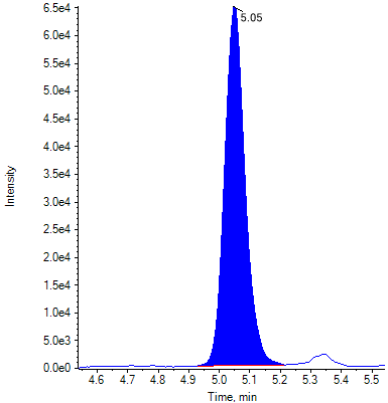
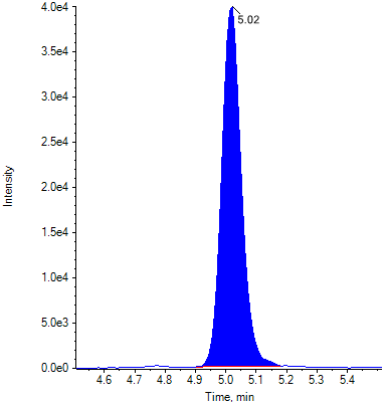
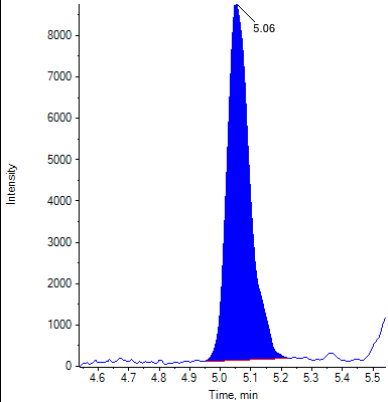
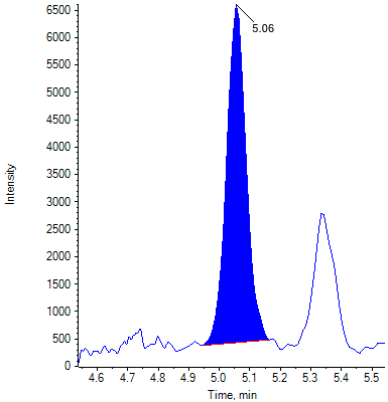
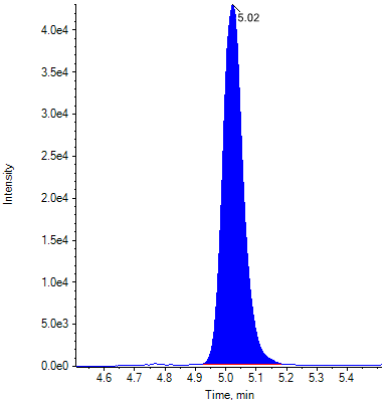
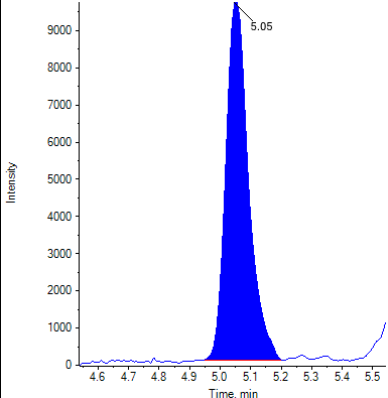
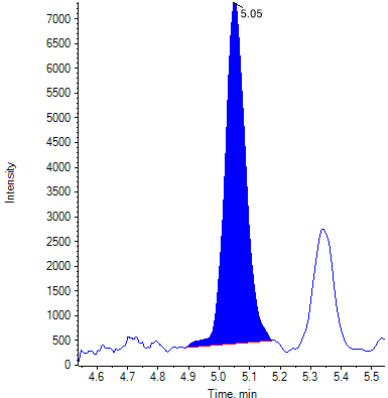
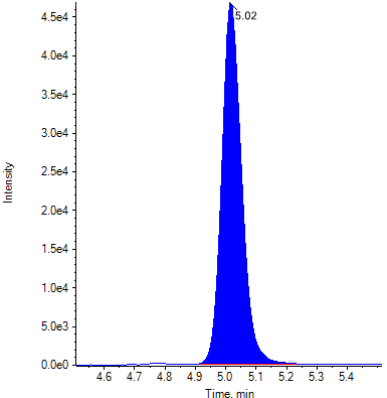
Identification Summary: THC-OH

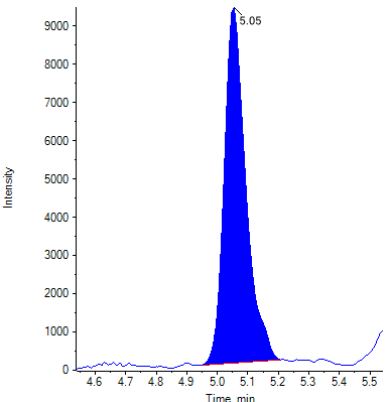
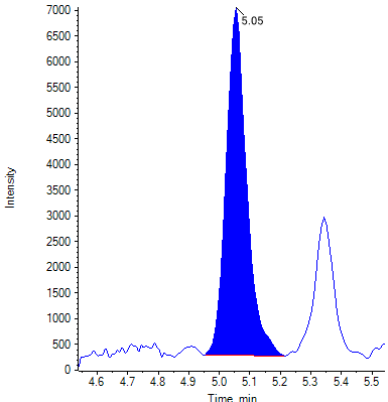
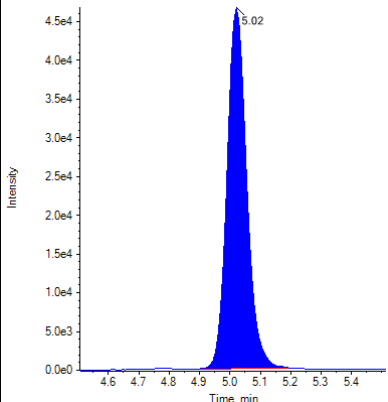
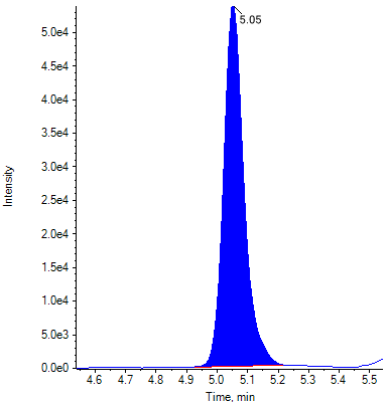
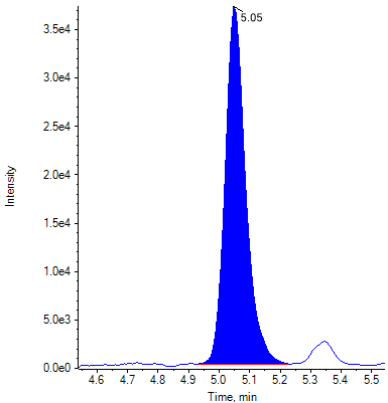
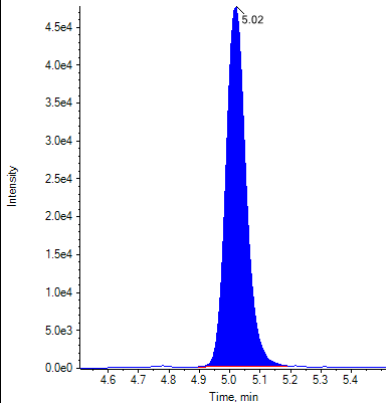
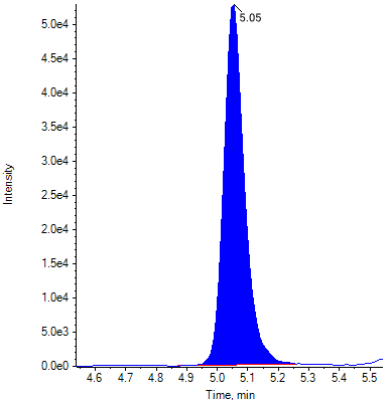
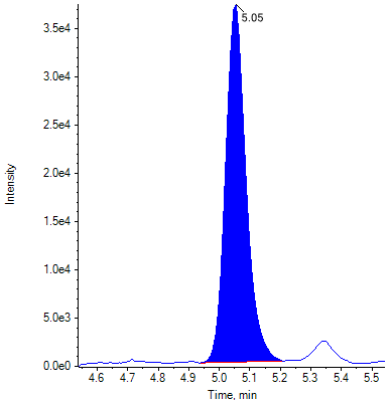
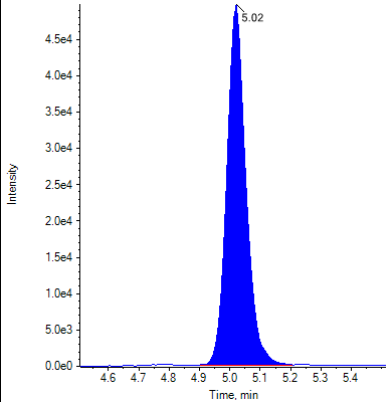
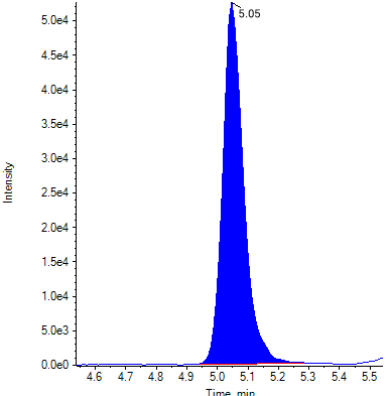
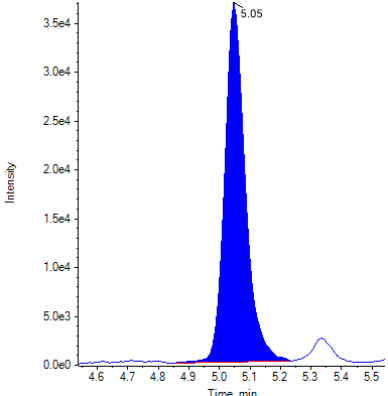
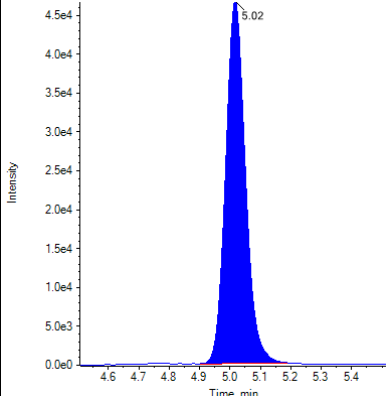
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 1	THC-OH 1	1.007 (Pass)	0.589 (Pass)
	THC-OH 2	1.006 (Pass)	
Standard 2	THC-OH 1	1.007 (Pass)	0.706 (Pass)
	THC-OH 2	1.007 (Pass)	

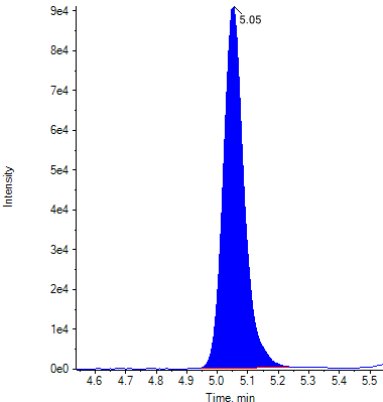
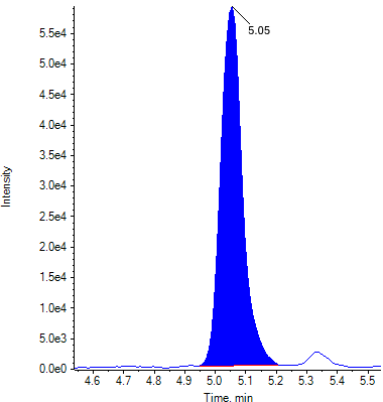
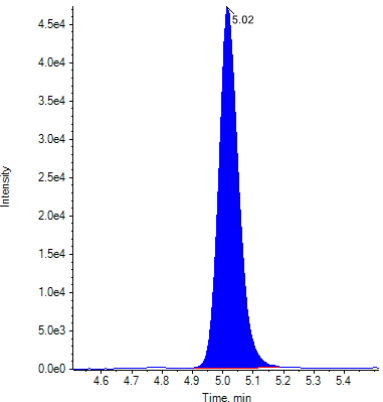
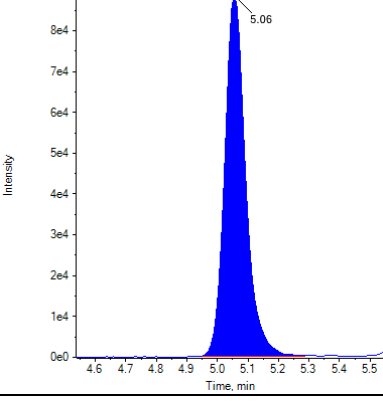
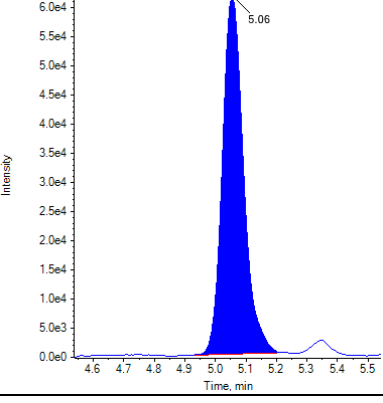
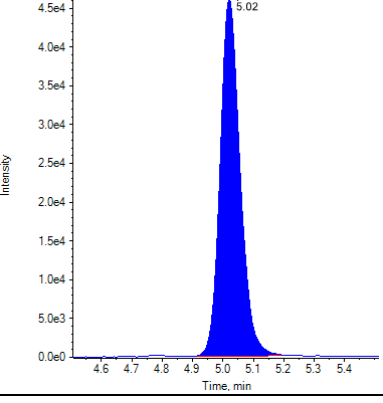
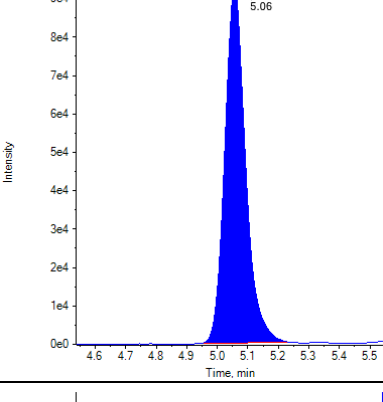
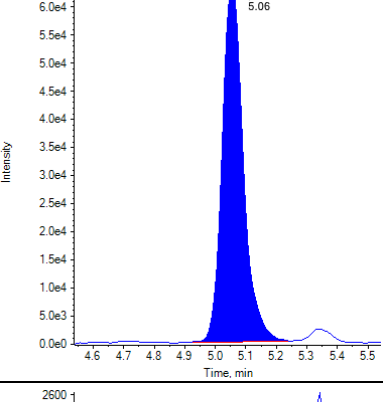
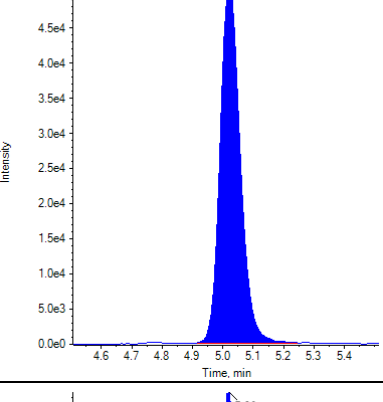
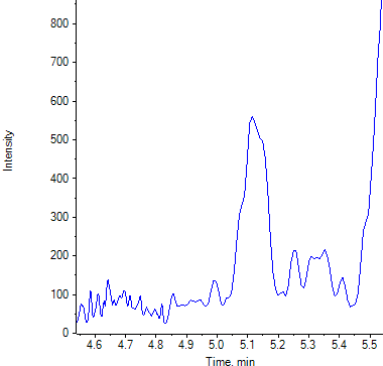
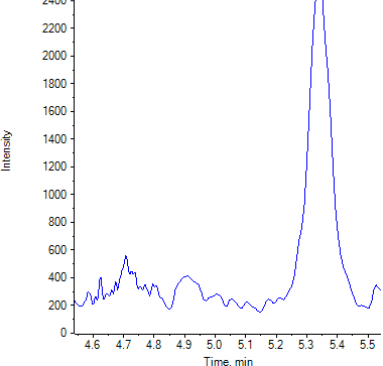
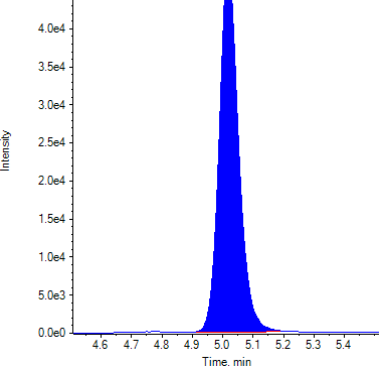
Identification Summary: THC-OH			
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 3	THC-OH 1	1.007 (Pass)	0.728 (Pass)
	THC-OH 2	1.007 (Pass)	
Standard 4	THC-OH 1	1.006 (Pass)	0.691 (Pass)
	THC-OH 2	1.006 (Pass)	
Standard 5	THC-OH 1	1.006 (Pass)	0.694 (Pass)
	THC-OH 2	1.006 (Pass)	
Standard 6	THC-OH 1	1.007 (Pass)	0.700 (Pass)
	THC-OH 2	1.006 (Pass)	
Low A	THC-OH 1	1.007 (Pass)	0.616 (Pass)
	THC-OH 2	1.007 (Pass)	
Low B	THC-OH 1	1.007 (Pass)	0.642 (Pass)
	THC-OH 2	1.007 (Pass)	
Low C	THC-OH 1	1.007 (Pass)	0.687 (Pass)
	THC-OH 2	1.006 (Pass)	
Medium A	THC-OH 1	1.007 (Pass)	0.690 (Pass)
	THC-OH 2	1.006 (Pass)	
Medium B	THC-OH 1	1.007 (Pass)	0.694 (Pass)
	THC-OH 2	1.006 (Pass)	
Medium C	THC-OH 1	1.006 (Pass)	0.688 (Pass)
	THC-OH 2	1.006 (Pass)	
High A	THC-OH 1	1.007 (Pass)	0.682 (Pass)
	THC-OH 2	1.007 (Pass)	
High B	THC-OH 1	1.007 (Pass)	0.701 (Pass)
	THC-OH 2	1.007 (Pass)	
High C	THC-OH 1	1.007 (Pass)	0.700 (Pass)
	THC-OH 2	1.007 (Pass)	
Negative	THC-OH 1	N/A ()	N/A ()
	THC-OH 2	N/A ()	
Standard 1 A	THC-OH 1	1.007 (Pass)	0.624 (Pass)
	THC-OH 2	1.006 (Pass)	
Standard 1 B	THC-OH 1	1.006 (Pass)	0.703 (Pass)
	THC-OH 2	1.006 (Pass)	
Standard 1 C	THC-OH 1	1.007 (Pass)	0.631 (Pass)
	THC-OH 2	1.007 (Pass)	

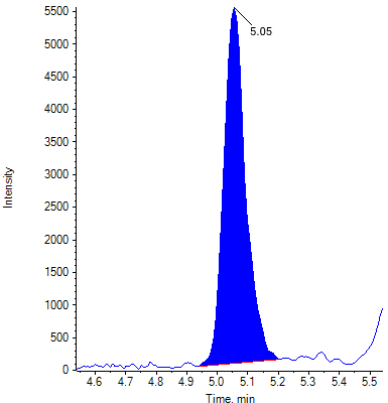
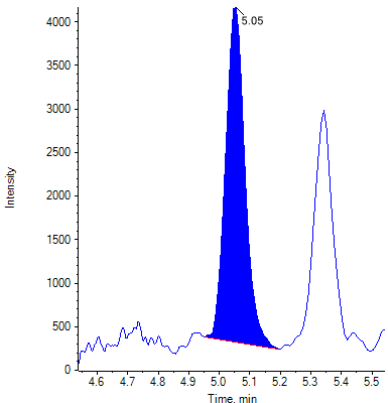
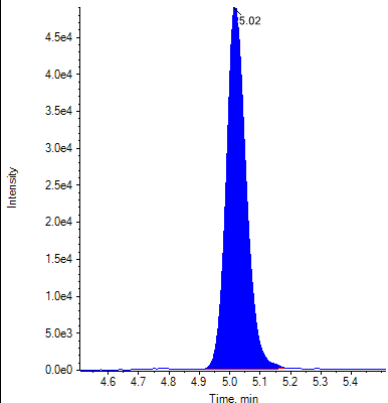
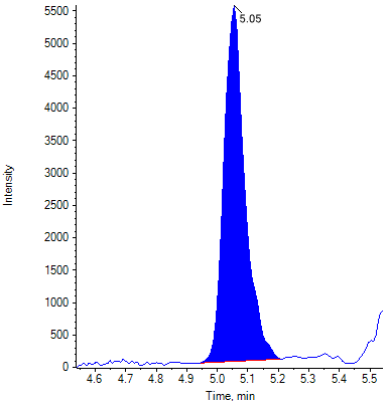
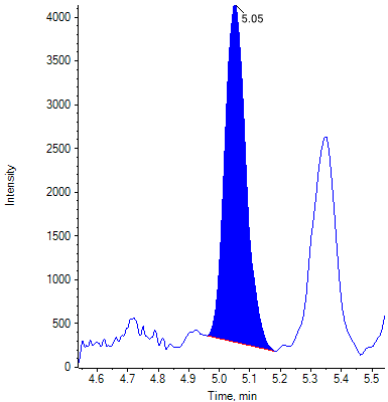
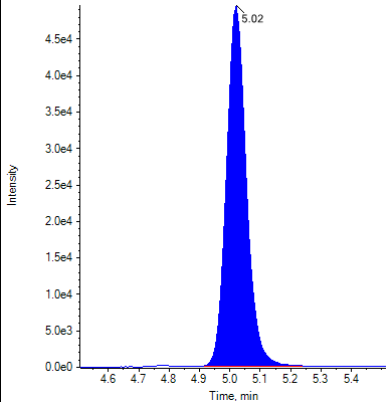
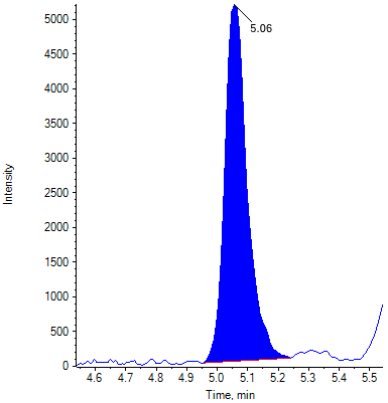
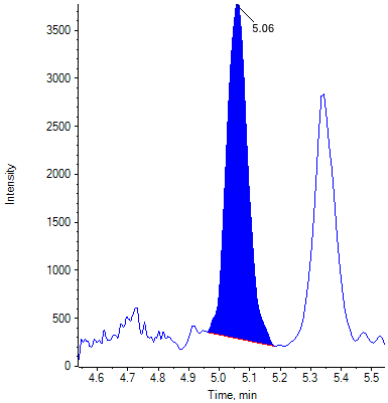
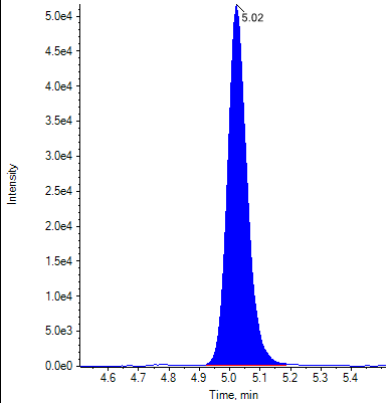
Peak Review			
Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3

Peak Review			
Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3
Standard 1			
Standard 2			
Standard 3			
Standard 4			

Peak Review			
Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3
Standard 5			
Standard 6			
Low A			
Low B			

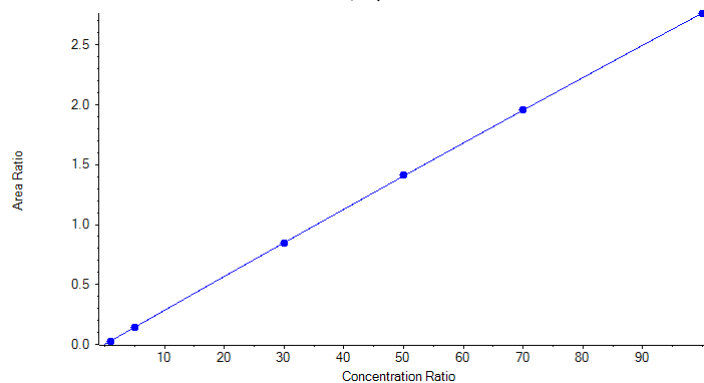
Peak Review			
Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3
Low C			
Medium A			
Medium B			
Medium C			

Peak Review			
Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3
High A			
High B			
High C			
Negative			

Peak Review			
Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3
Standard 1 A			
Standard 1 B			
Standard 1 C			

Calibration Summary: Δ9-THC

$$y = -8.92043e-6 x^2 + 0.02855 x + -4.05707e-5 \quad (r = 0.99999) \quad (\text{weighting: } 1/x)$$

**Analyte Transition Mass**

Internal Standard	Δ9-THC-D3
I.S. Transition Mass	318.1 / 123.0
Δ9-THC 1	315.1 / 193.1
Δ9-THC 2	315.1 / 123.0

Relative Retention time: Expected (Acceptance Range)

Δ9-THC 1	1.004 (0.979-1.029)
Δ9-THC 2	1.004 (0.979-1.029)

Ion Ratio: Expected (Acceptance Range)

Δ9-THC 2	0.701 (0.561-0.841)
Δ9-THC comment	

Quantitative Summary: Δ9-THC

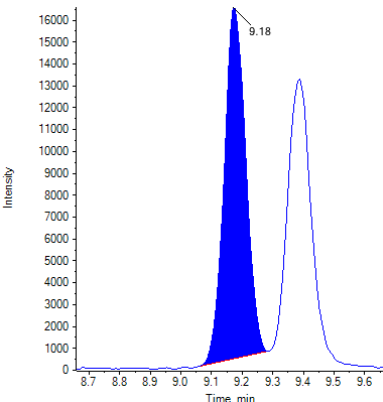
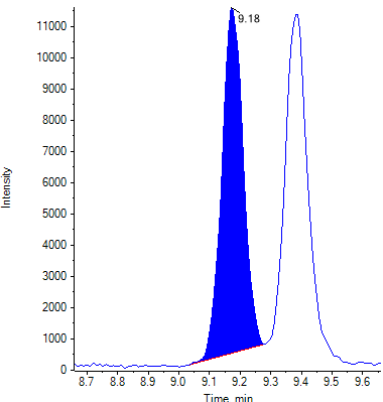
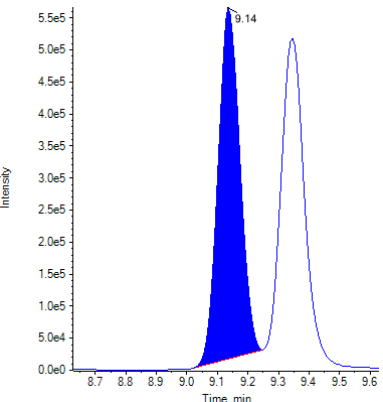
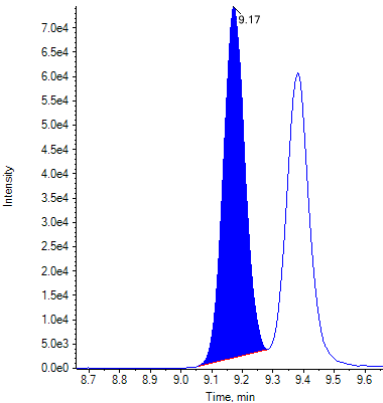
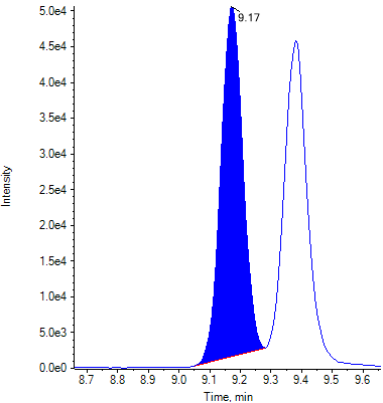
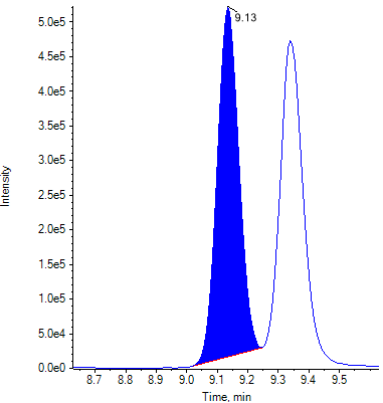
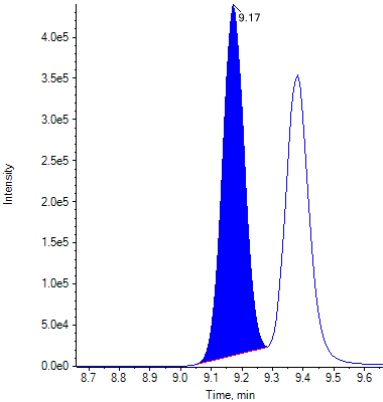
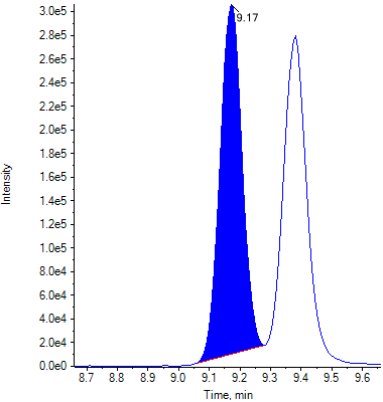
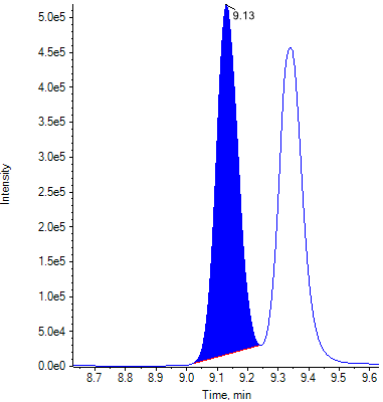
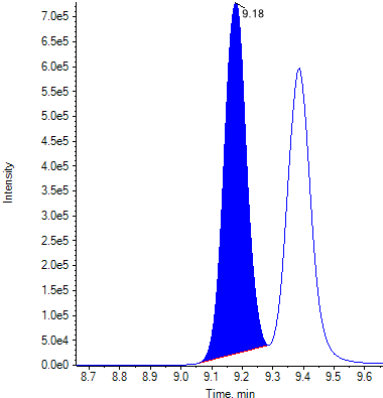
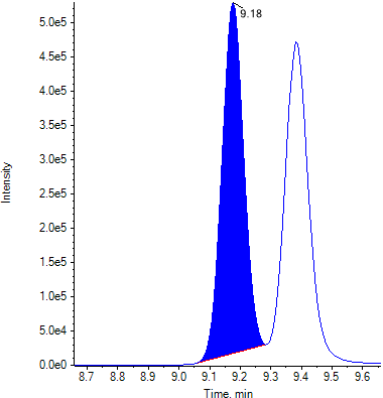
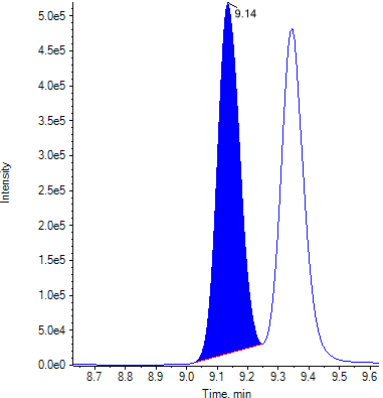
Sample Name	Area Ratio	Actual Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
Standard 1	0.0288	1.00	1.012	101.20
Standard 2	0.1409	5.00	4.943	98.85
Standard 3	0.8432	30.00	29.811	99.37
Standard 4	1.4141	50.00	50.319	100.64
Standard 5	1.9566	70.00	70.062	100.09
Standard 6	2.7621	100.00	99.854	99.85
Low A	0.0809	3.00	2.837	94.56
Low B	0.0823	3.00	2.888	96.26
Low C	0.0785	3.00	2.752	91.73
Medium A	1.0996	40.00	38.986	97.47
Medium B	1.0786	40.00	38.234	95.59
Medium C	1.0910	40.00	38.680	96.70
High A	2.0740	80.00	74.366	92.96
High B	2.2081	80.00	79.300	99.13
High C	2.1358	80.00	76.636	95.80
Negative	N/A	0.00	N/A	N/A
Standard 1 A	0.0267	1.00	0.936	93.60
Standard 1 B	0.0286	1.00	1.003	100.25
Standard 1 C	0.0264	1.00	0.927	92.66

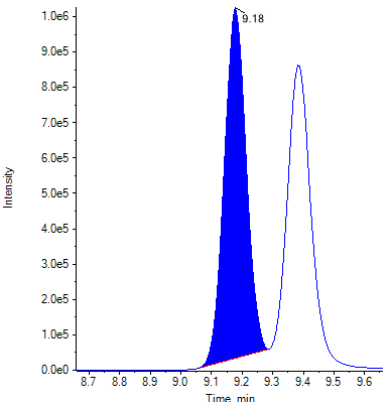
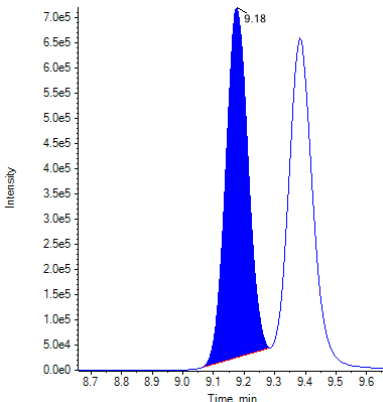
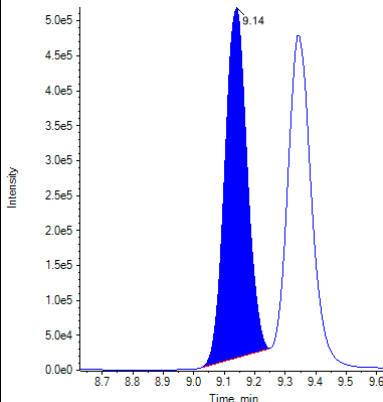
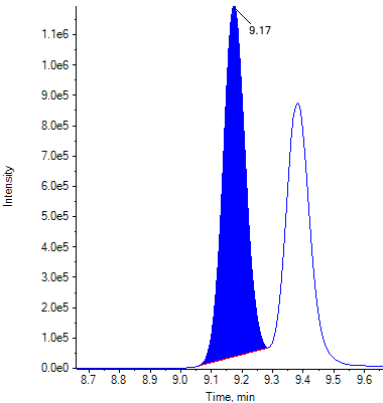
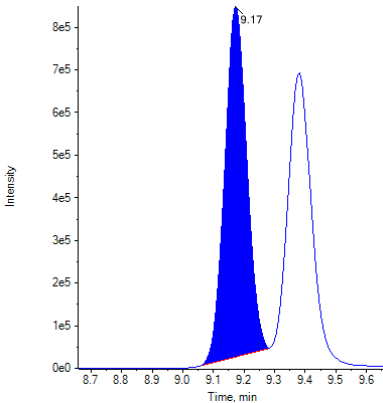
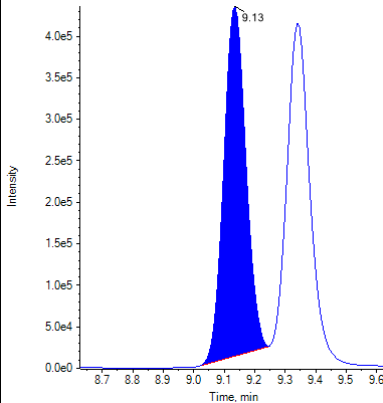
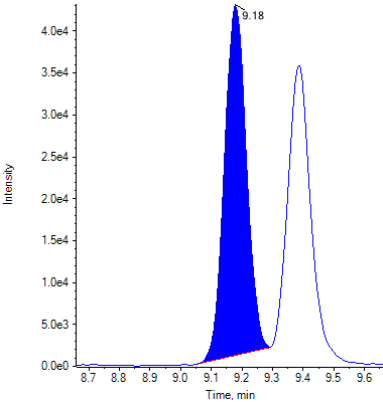
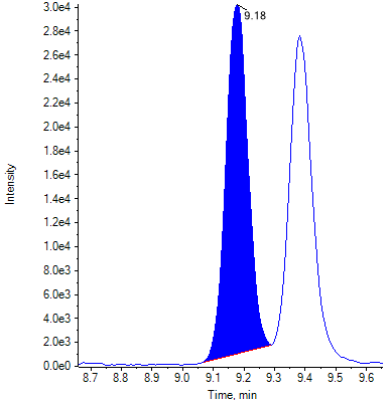
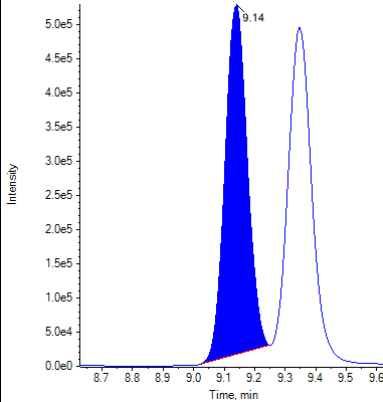
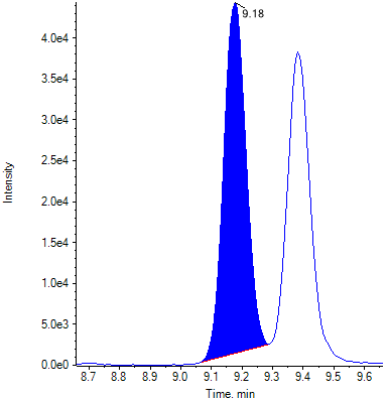
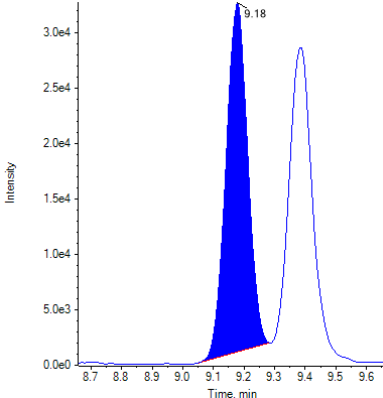
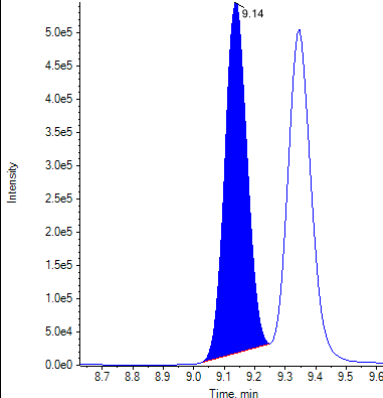
Identification Summary: Δ9-THC

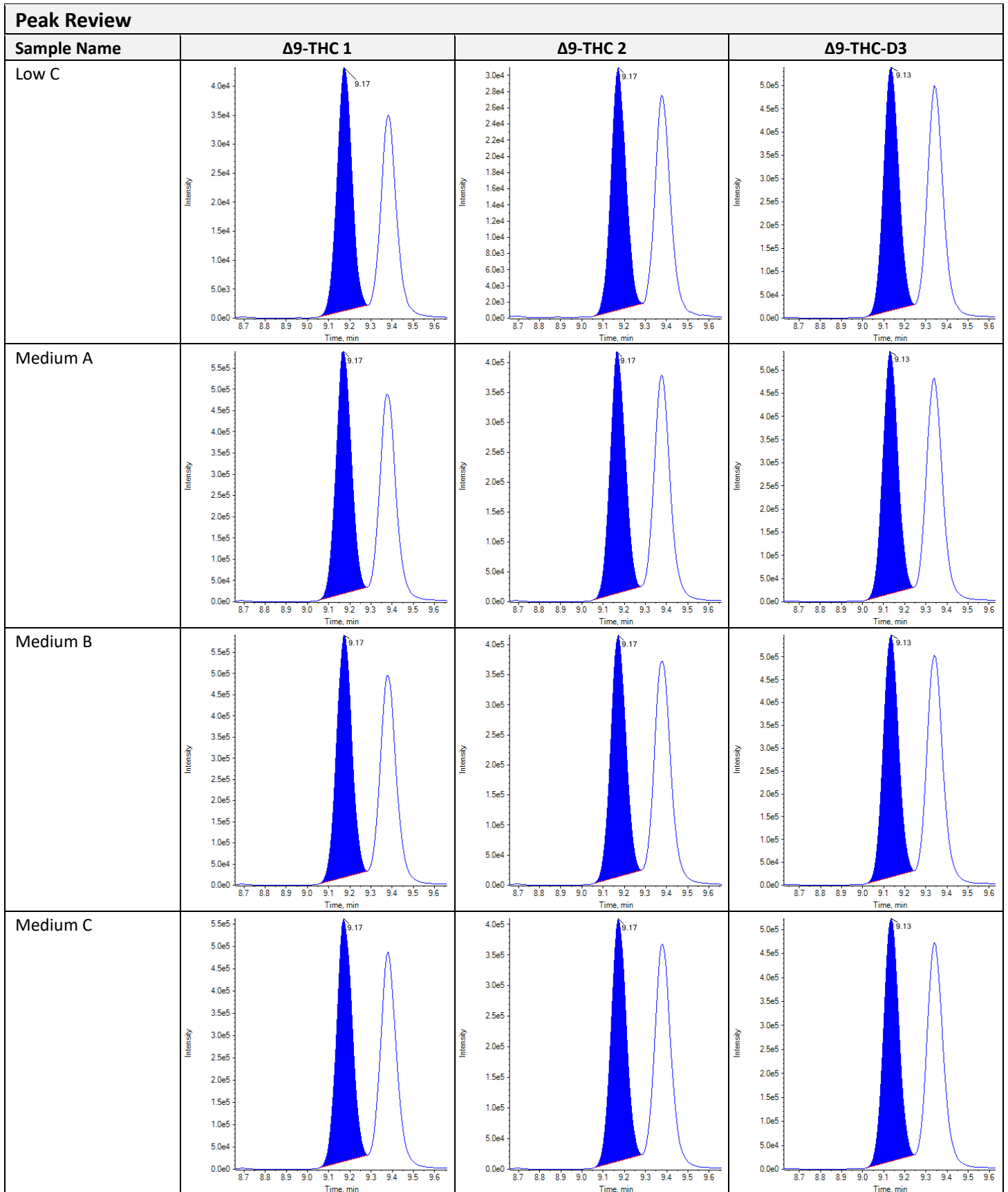
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 1	Δ9-THC 1	1.004 (Pass)	0.687 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Standard 2	Δ9-THC 1	1.004 (Pass)	0.696 (Pass)
	Δ9-THC 2	1.004 (Pass)	

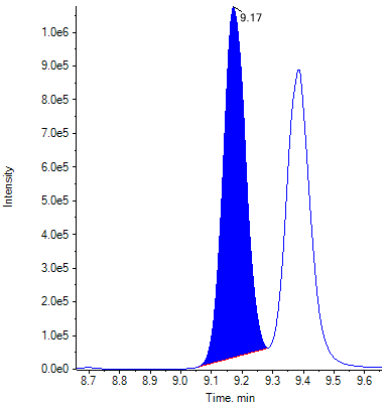
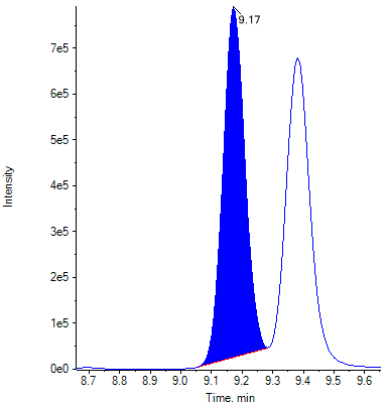
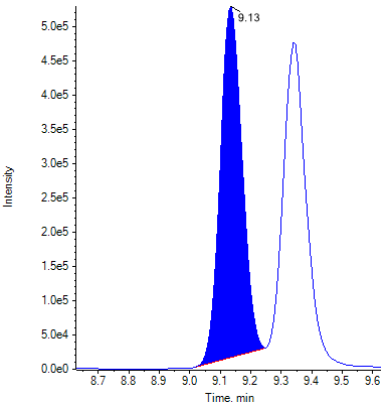
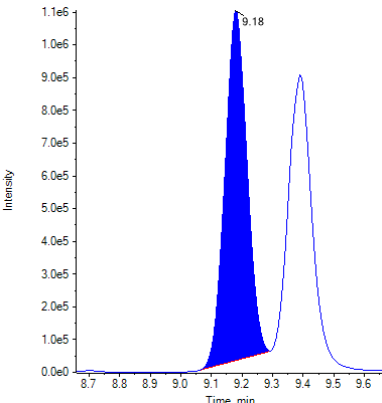
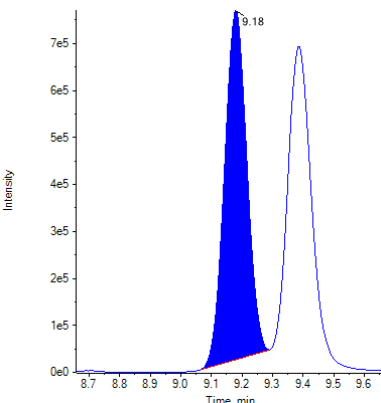
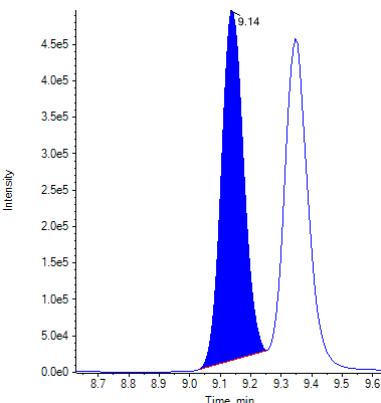
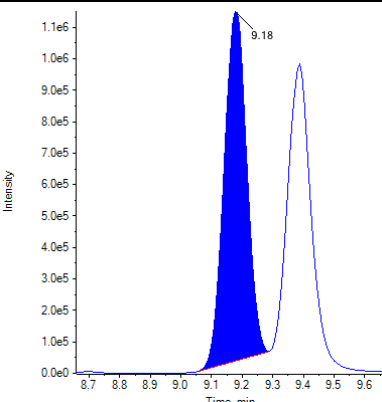
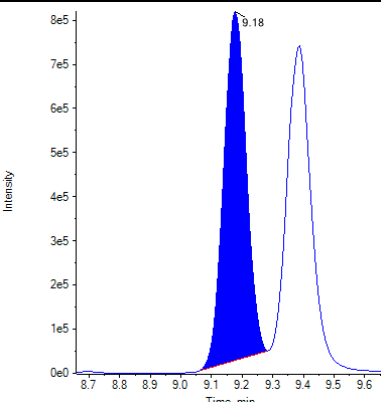
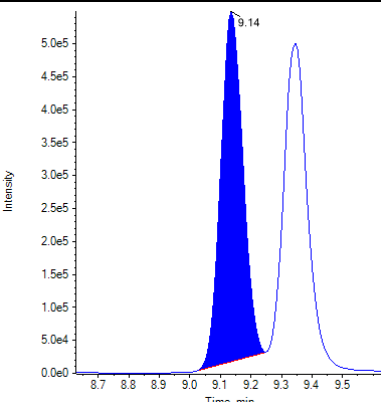
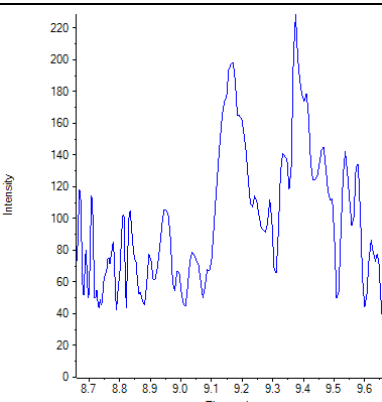
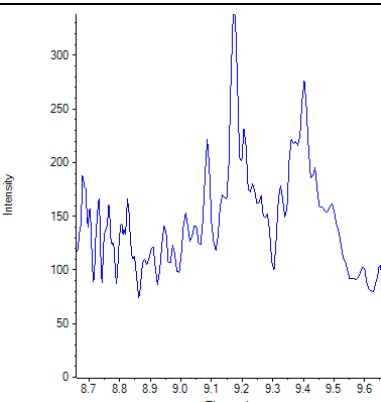
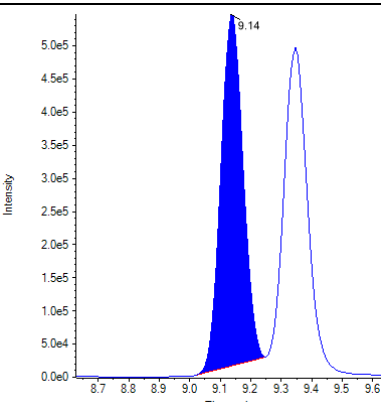
Identification Summary: Δ9-THC			
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 3	Δ9-THC 1	1.004 (Pass)	0.706 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Standard 4	Δ9-THC 1	1.004 (Pass)	0.706 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Standard 5	Δ9-THC 1	1.004 (Pass)	0.708 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Standard 6	Δ9-THC 1	1.004 (Pass)	0.705 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Low A	Δ9-THC 1	1.004 (Pass)	0.702 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Low B	Δ9-THC 1	1.004 (Pass)	0.709 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Low C	Δ9-THC 1	1.004 (Pass)	0.711 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Medium A	Δ9-THC 1	1.004 (Pass)	0.701 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Medium B	Δ9-THC 1	1.004 (Pass)	0.699 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Medium C	Δ9-THC 1	1.004 (Pass)	0.711 (Pass)
	Δ9-THC 2	1.004 (Pass)	
High A	Δ9-THC 1	1.004 (Pass)	0.717 (Pass)
	Δ9-THC 2	1.004 (Pass)	
High B	Δ9-THC 1	1.004 (Pass)	0.706 (Pass)
	Δ9-THC 2	1.004 (Pass)	
High C	Δ9-THC 1	1.004 (Pass)	0.706 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Negative	Δ9-THC 1	N/A ()	N/A ()
	Δ9-THC 2	N/A ()	
Standard 1 A	Δ9-THC 1	1.004 (Pass)	0.744 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Standard 1 B	Δ9-THC 1	1.004 (Pass)	0.703 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Standard 1 C	Δ9-THC 1	1.004 (Pass)	0.713 (Pass)
	Δ9-THC 2	1.004 (Pass)	

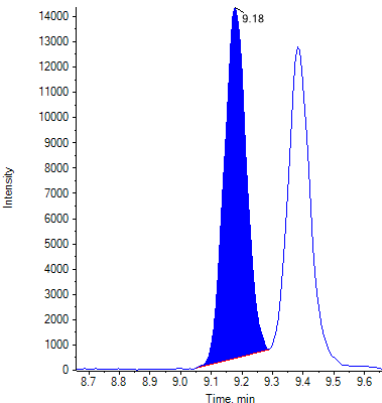
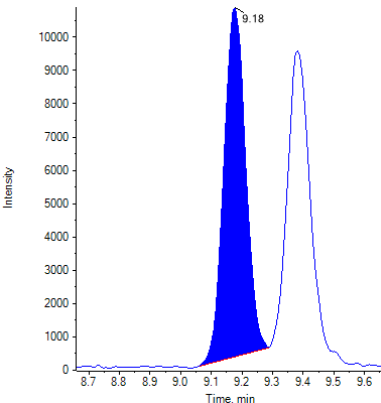
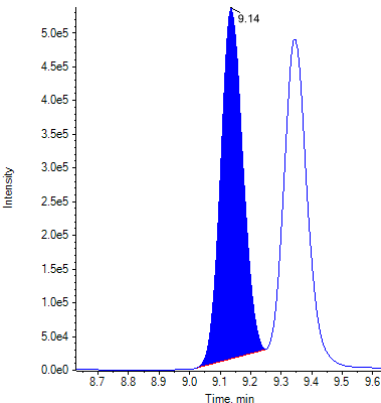
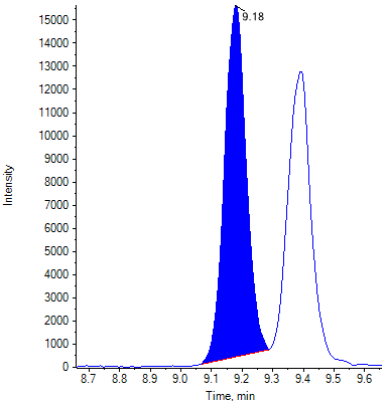
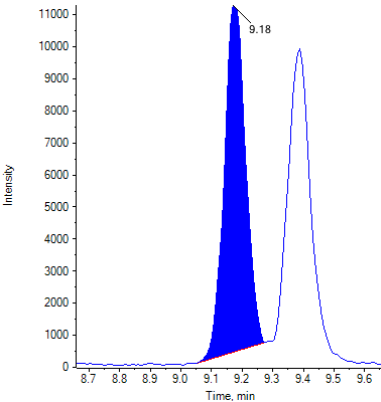
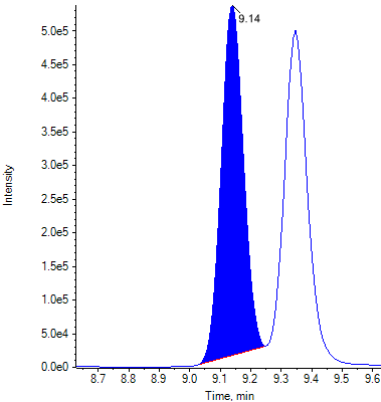
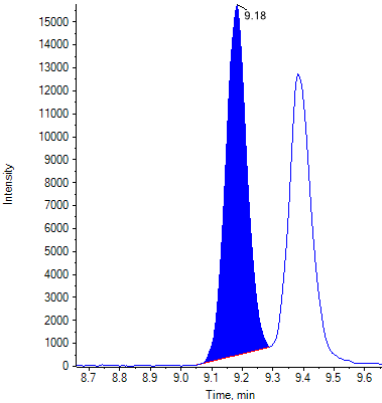
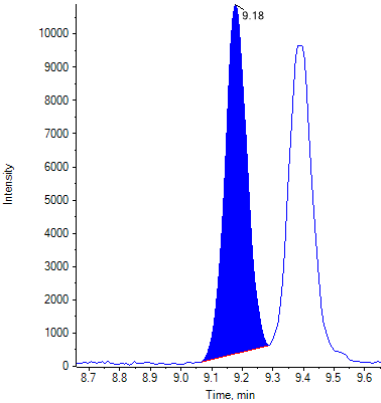
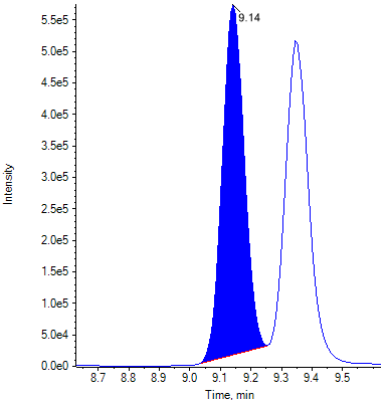
Peak Review			
Sample Name	Δ9-THC 1	Δ9-THC 2	Δ9-THC-D3

Peak Review			
Sample Name	$\Delta 9$ -THC 1	$\Delta 9$ -THC 2	$\Delta 9$ -THC-D3
Standard 1			
Standard 2			
Standard 3			
Standard 4			

Peak Review			
Sample Name	$\Delta 9$ -THC 1	$\Delta 9$ -THC 2	$\Delta 9$ -THC-D3
Standard 5			
Standard 6			
Low A			
Low B			

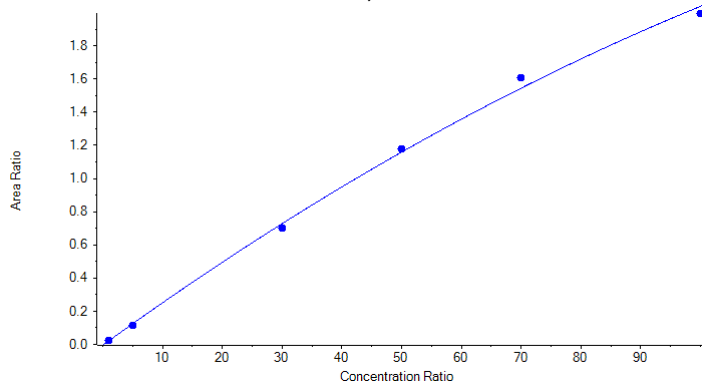


Peak Review			
Sample Name	$\Delta 9$ -THC 1	$\Delta 9$ -THC 2	$\Delta 9$ -THC-D3
High A			
High B			
High C			
Negative			

Peak Review			
Sample Name	$\Delta 9$ -THC 1	$\Delta 9$ -THC 2	$\Delta 9$ -THC-D3
Standard 1 A			
Standard 1 B			
Standard 1 C			

Calibration Summary: Δ8-THC

$$y = -5.69722e-5 x^2 + 0.02612 x - 0.00461 \quad (r = 0.99938) \quad (\text{weighting: } 1/x)$$



Analyte Transition Mass

Internal Standard	Δ8-THC-D3
I.S. Transition Mass	318.1 / 123.0
Δ8-THC 1	315.1 / 193.1
Δ8-THC 2	315.1 / 123.1

Relative Retention time: Expected (Acceptance Range)

Δ8-THC 1	1.004 (0.979-1.029)
Δ8-THC 2	1.004 (0.979-1.029)

Ion Ratio: Expected (Acceptance Range)

Δ8-THC 2	0.760 (0.608-0.912)
Δ8-THC comment	

Quantitative Summary: Δ8-THC

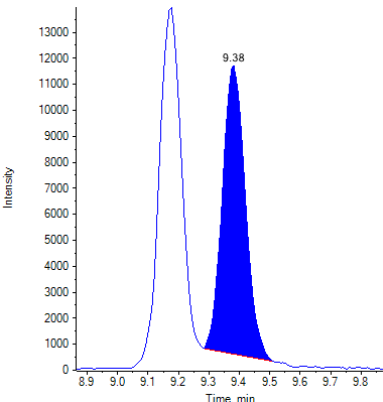
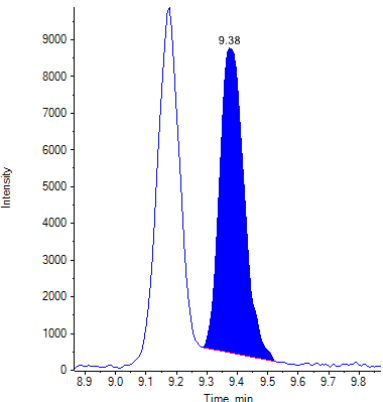
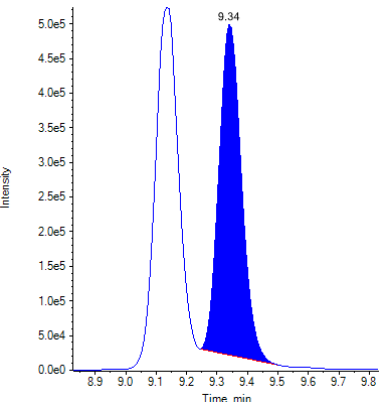
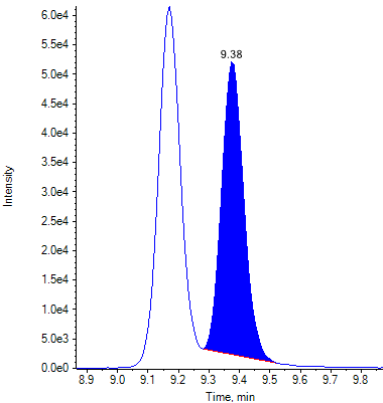
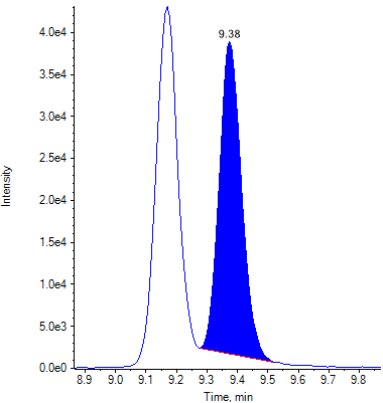
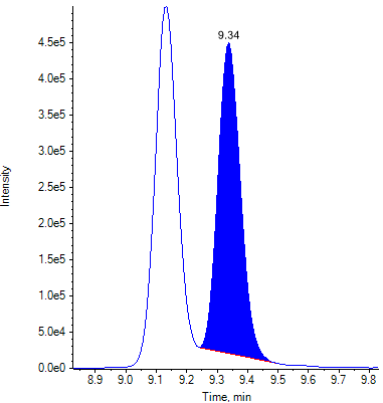
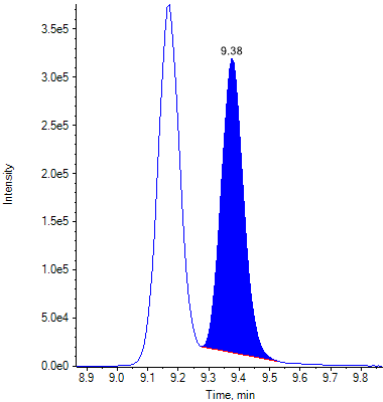
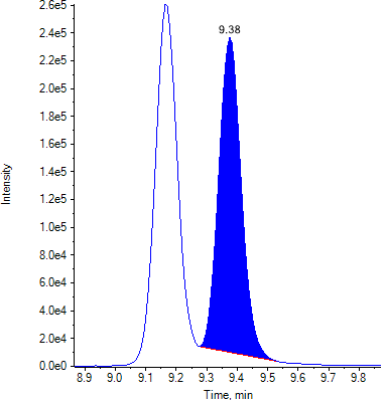
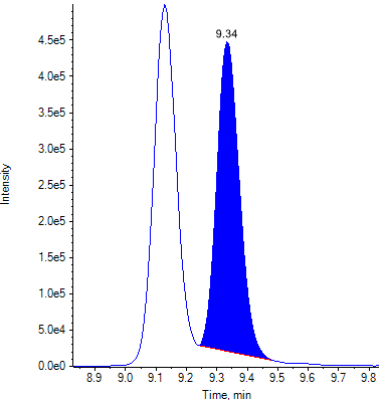
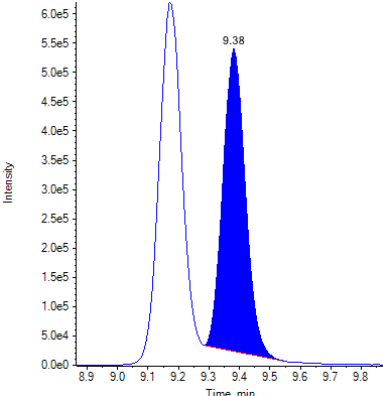
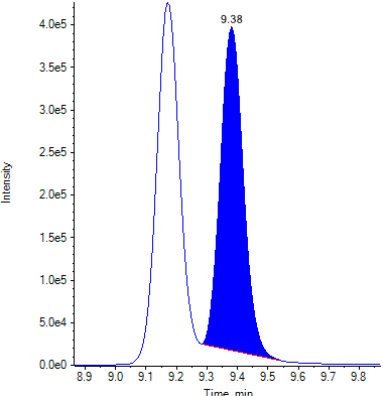
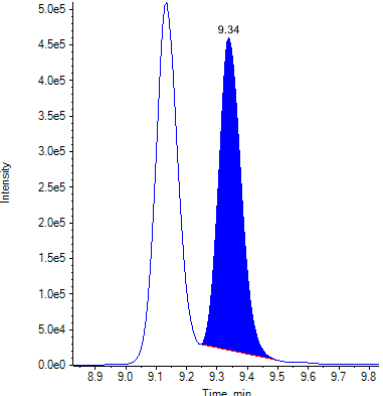
Sample Name	Area Ratio	Actual Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
Standard 1	0.0237	1.00	1.085	108.50
Standard 2	0.1143	5.00	4.597	91.93
Standard 3	0.6985	30.00	28.712	95.71
Standard 4	1.1787	50.00	50.956	101.91
Standard 5	1.6063	70.00	73.419	104.88
Standard 6	1.9947	100.00	97.086	97.09
Low A	0.0647	3.00	2.669	88.95
Low B	0.0678	3.00	2.790	92.99
Low C	0.0624	3.00	2.578	85.94
Medium A	0.9094	40.00	38.161	95.40
Medium B	0.8682	40.00	36.281	90.70
Medium C	0.8917	40.00	37.353	93.38
High A	1.7050	80.00	79.075	98.84
High B	1.7835	80.00	83.737	104.67
High C	1.7380	80.00	81.018	101.27
Negative	N/A	0.00	N/A	N/A
Standard 1 A	0.0222	1.00	1.027	102.69
Standard 1 B	0.0235	1.00	1.079	107.93
Standard 1 C	0.0220	1.00	1.020	102.01

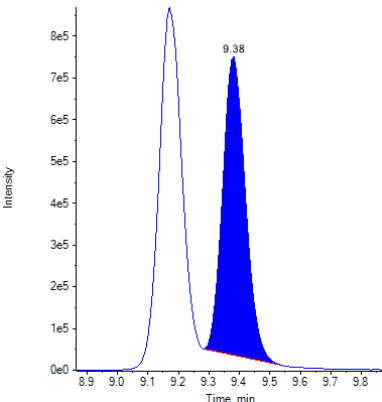
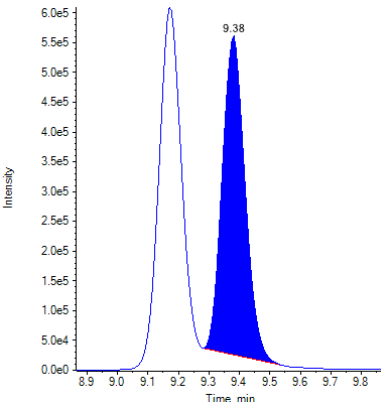
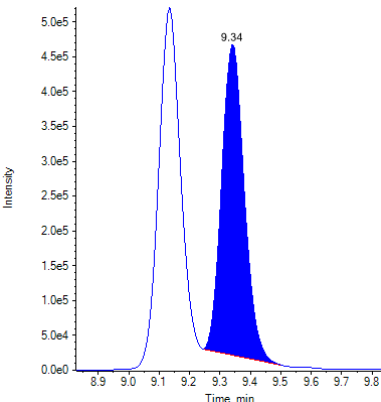
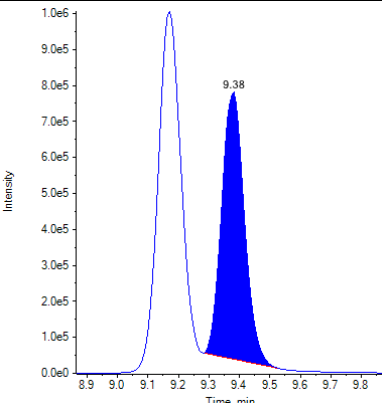
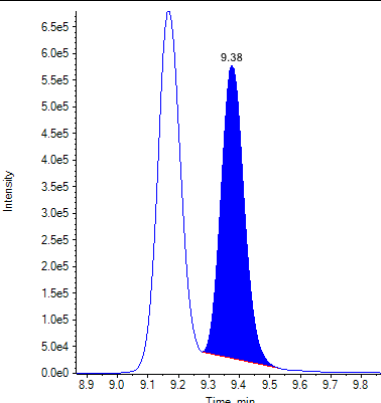
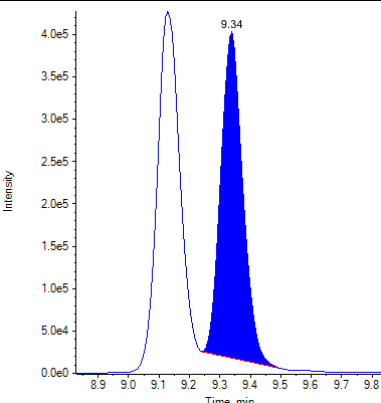
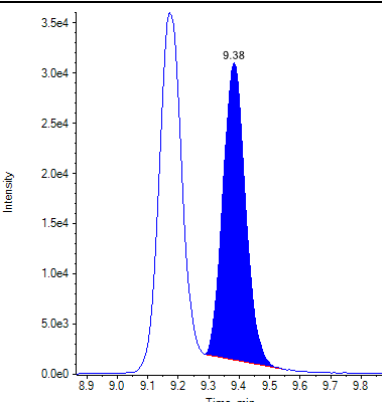
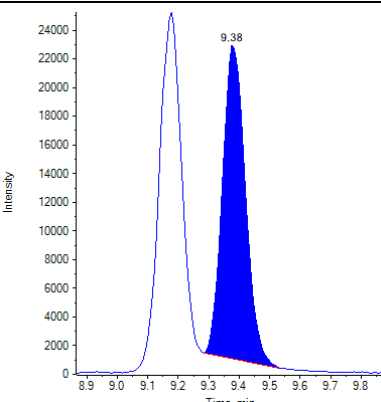
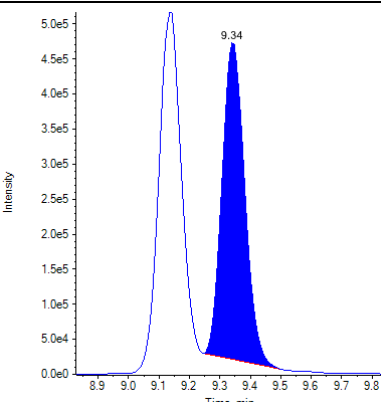
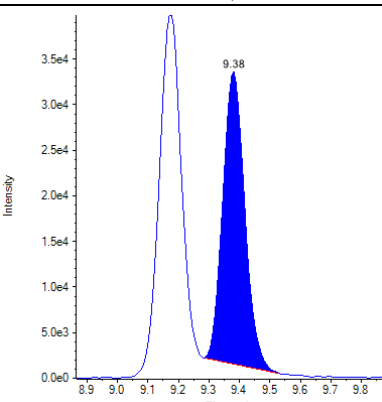
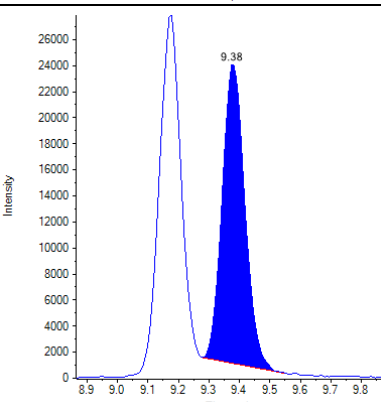
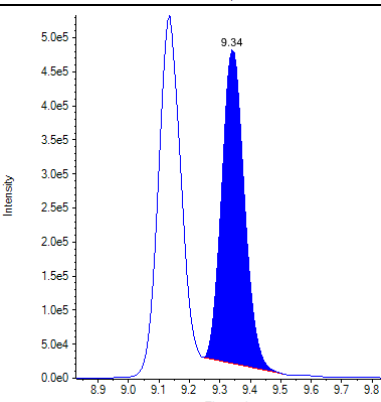
Identification Summary: Δ8-THC

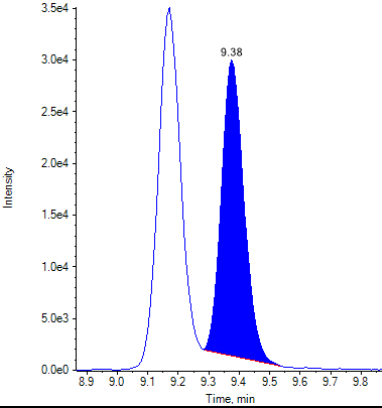
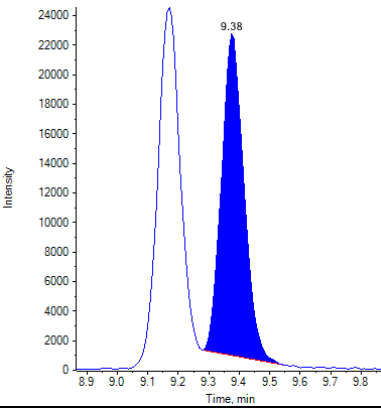
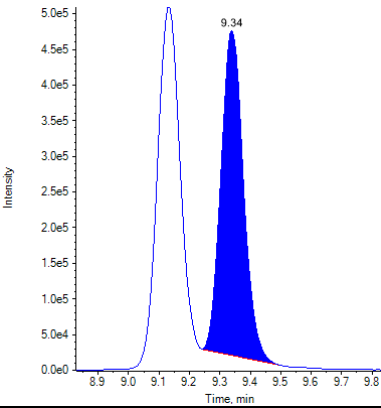
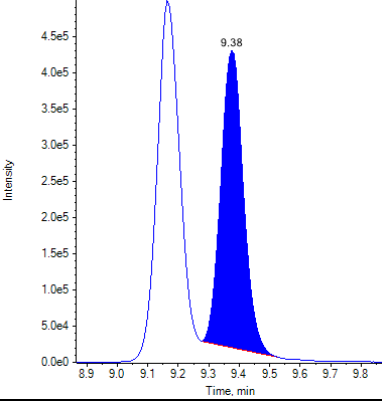
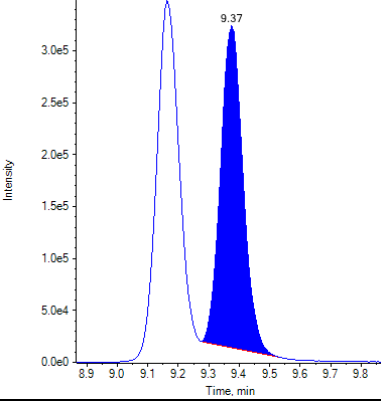
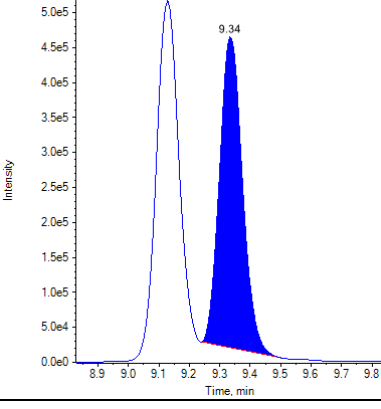
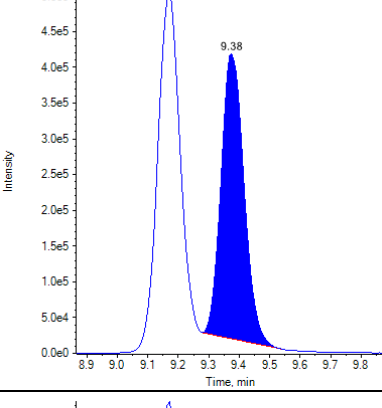
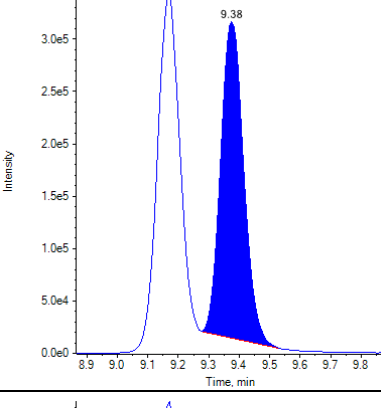
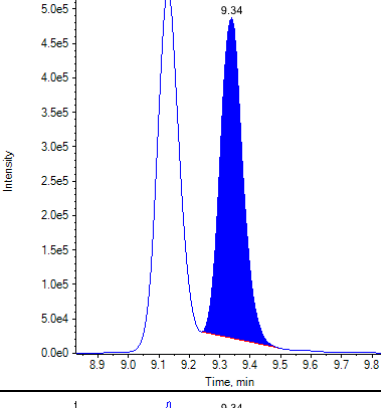
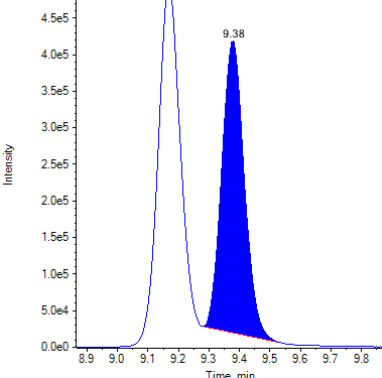
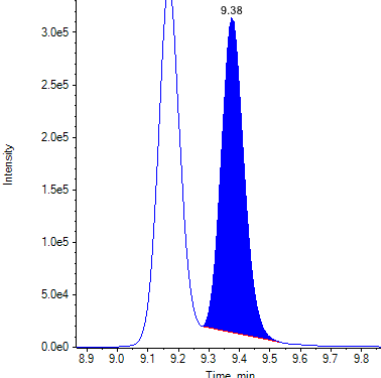
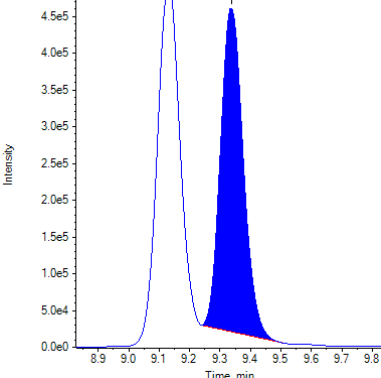
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 1	Δ8-THC 1	1.004 (Pass)	0.793 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Standard 2	Δ8-THC 1	1.004 (Pass)	0.757 (Pass)
	Δ8-THC 2	1.004 (Pass)	

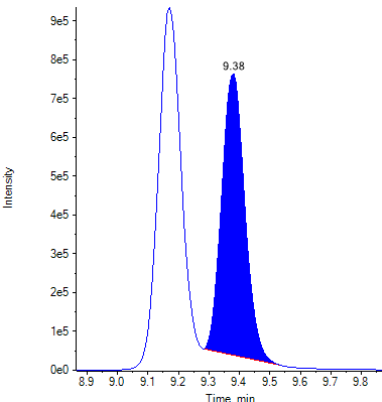
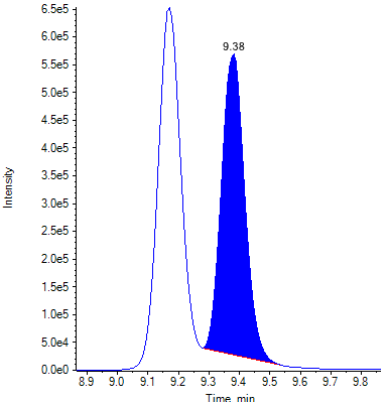
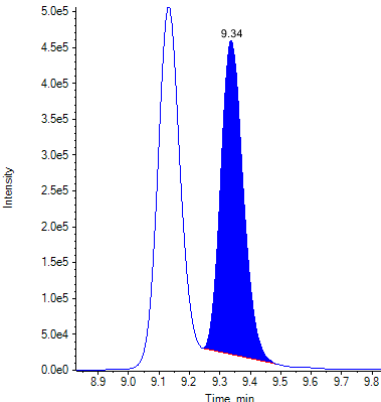
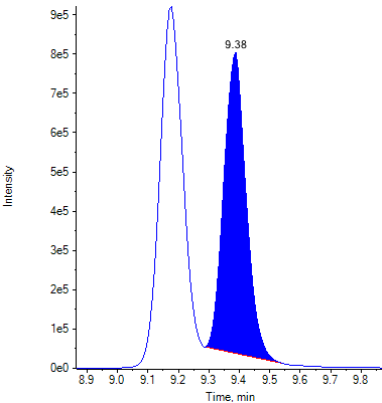
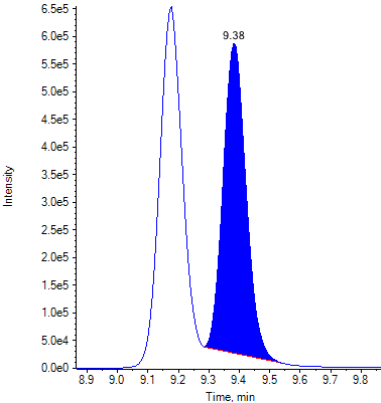
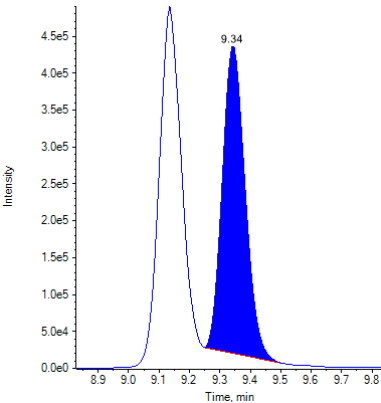
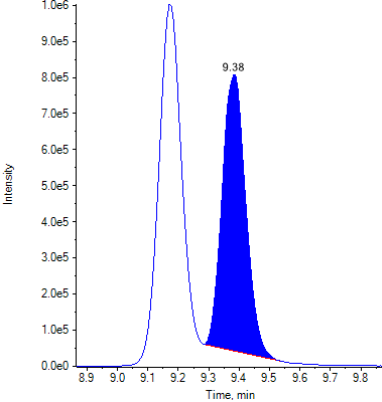
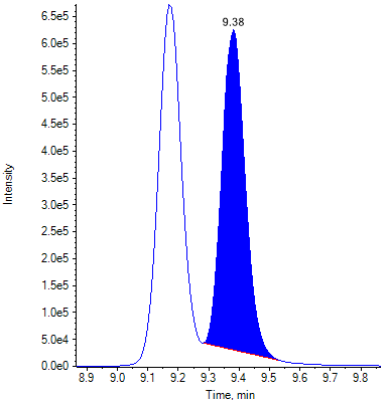
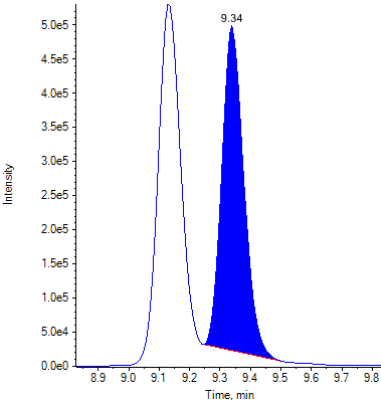
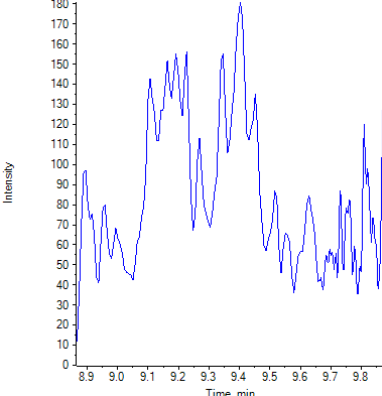
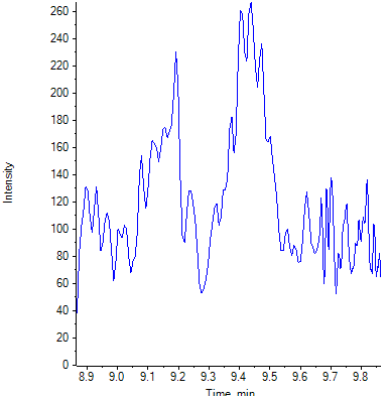
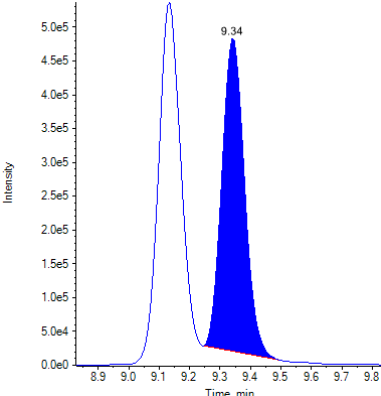
Identification Summary: Δ8-THC			
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 3	Δ8-THC 1	1.004 (Pass)	0.756 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Standard 4	Δ8-THC 1	1.004 (Pass)	0.753 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Standard 5	Δ8-THC 1	1.004 (Pass)	0.752 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Standard 6	Δ8-THC 1	1.004 (Pass)	0.750 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Low A	Δ8-THC 1	1.004 (Pass)	0.755 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Low B	Δ8-THC 1	1.004 (Pass)	0.740 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Low C	Δ8-THC 1	1.004 (Pass)	0.757 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Medium A	Δ8-THC 1	1.004 (Pass)	0.751 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Medium B	Δ8-THC 1	1.004 (Pass)	0.762 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Medium C	Δ8-THC 1	1.004 (Pass)	0.757 (Pass)
	Δ8-THC 2	1.004 (Pass)	
High A	Δ8-THC 1	1.004 (Pass)	0.754 (Pass)
	Δ8-THC 2	1.004 (Pass)	
High B	Δ8-THC 1	1.004 (Pass)	0.755 (Pass)
	Δ8-THC 2	1.004 (Pass)	
High C	Δ8-THC 1	1.004 (Pass)	0.765 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Negative	Δ8-THC 1	N/A ()	N/A ()
	Δ8-THC 2	N/A ()	
Standard 1 A	Δ8-THC 1	1.004 (Pass)	0.784 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Standard 1 B	Δ8-THC 1	1.004 (Pass)	0.739 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Standard 1 C	Δ8-THC 1	1.004 (Pass)	0.760 (Pass)
	Δ8-THC 2	1.004 (Pass)	

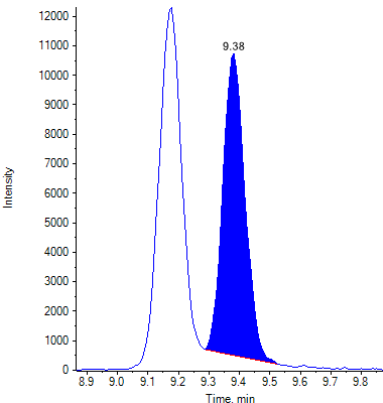
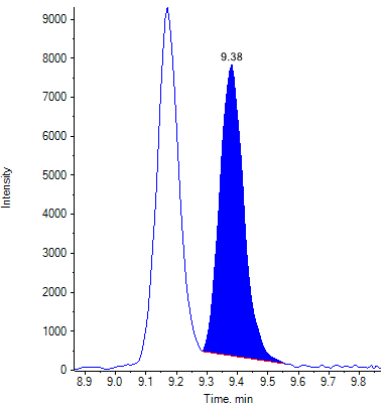
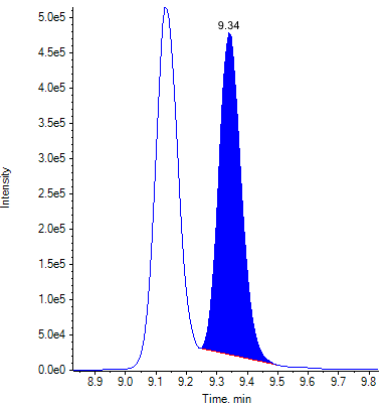
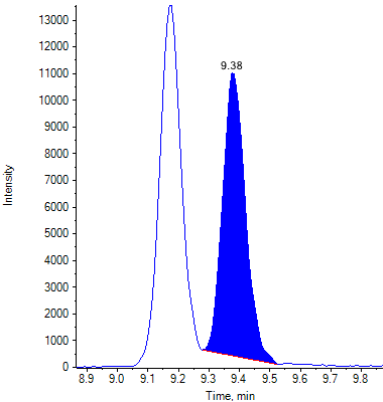
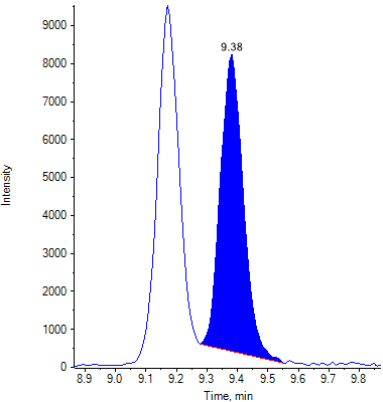
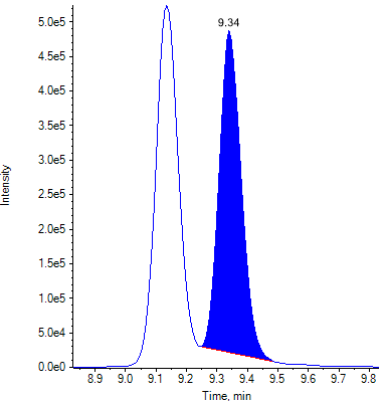
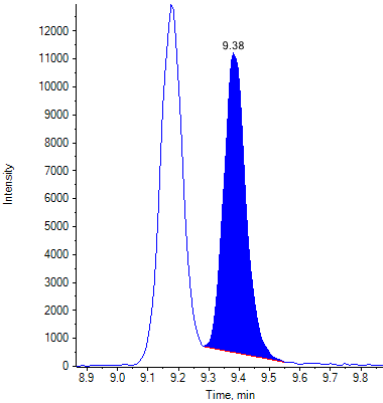
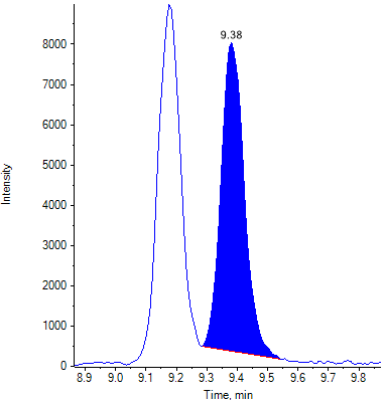
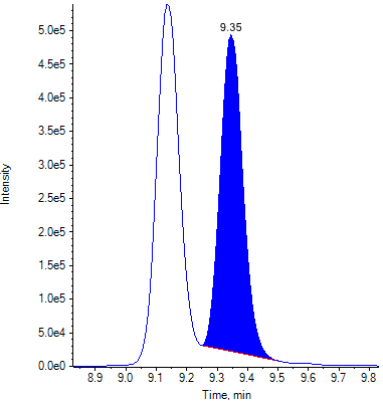
Peak Review			
Sample Name	Δ8-THC 1	Δ8-THC 2	Δ8-THC-D3

Peak Review			
Sample Name	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2	$\Delta 8$ -THC-D3
Standard 1			
Standard 2			
Standard 3			
Standard 4			

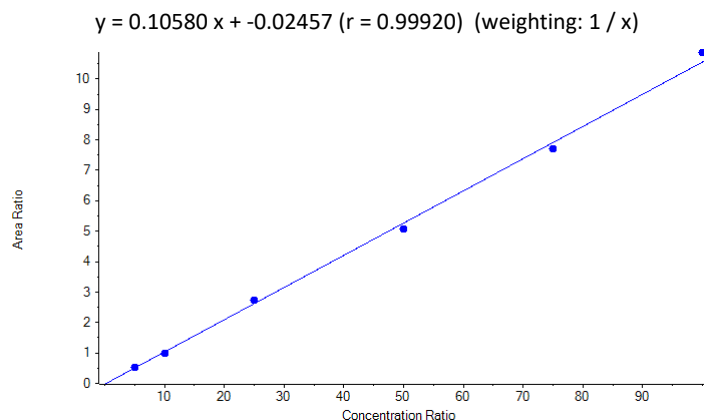
Peak Review			
Sample Name	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2	$\Delta 8$ -THC-D3
Standard 5			
Standard 6			
Low A			
Low B			

Peak Review			
Sample Name	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2	$\Delta 8$ -THC-D3
Low C			
Medium A			
Medium B			
Medium C			

Peak Review			
Sample Name	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2	$\Delta 8$ -THC-D3
High A			
High B			
High C			
Negative			

Peak Review			
Sample Name	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2	$\Delta 8$ -THC-D3
Standard 1 A			
Standard 1 B			
Standard 1 C			

Calibration Summary: THC-COOH



Analyte Transition Mass	
Internal Standard	THC-COOH-D3
I.S. Transition Mass	346.0 / 194.0
THC-COOH 1	343.0 / 299.1
THC-COOH 2	343.0 / 191.0
Relative Retention time: Expected (Acceptance Range)	
THC-COOH 1	1.006 (0.981-1.031)
THC-COOH 2	1.006 (0.981-1.031)
Ion Ratio: Expected (Acceptance Range)	
THC-COOH 2	0.183 (0.146-0.220)
THC-COOH comment	

Quantitative Summary: THC-COOH

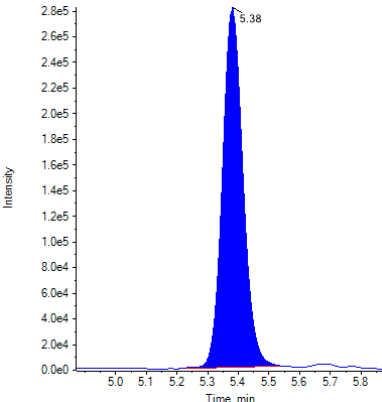
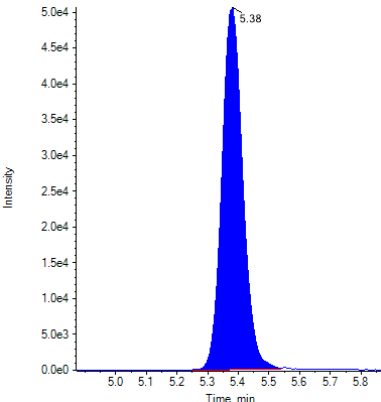
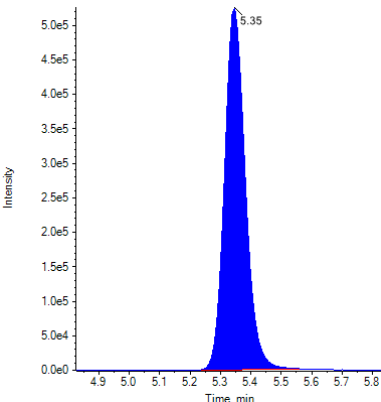
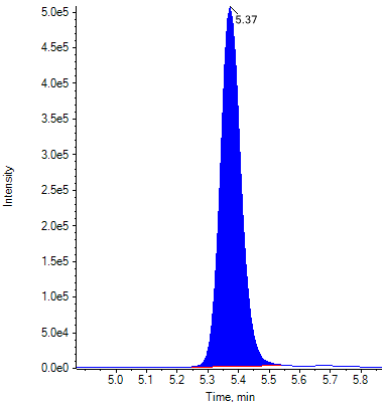
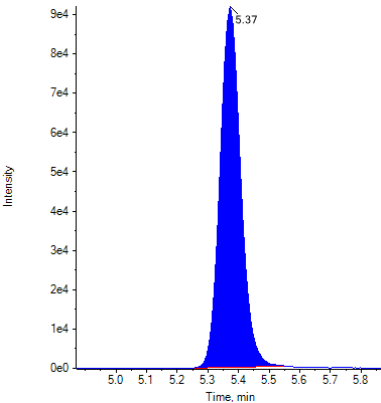
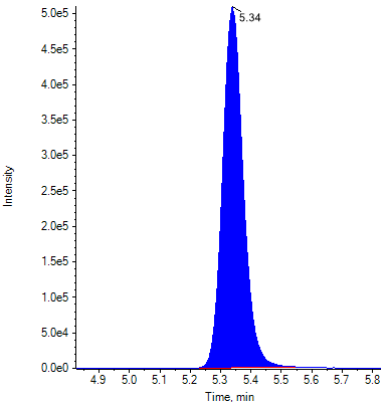
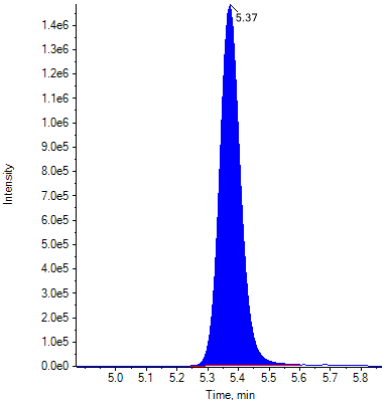
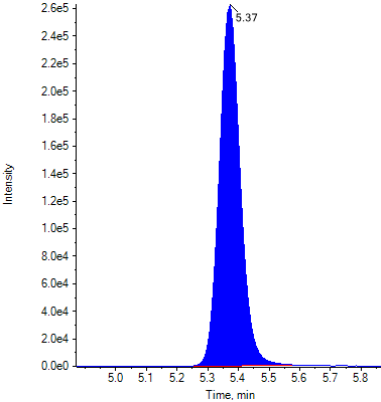
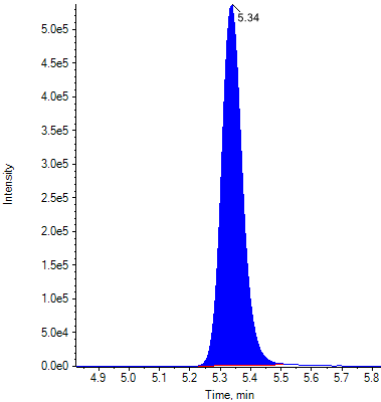
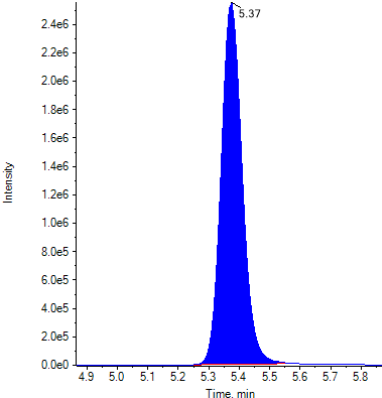
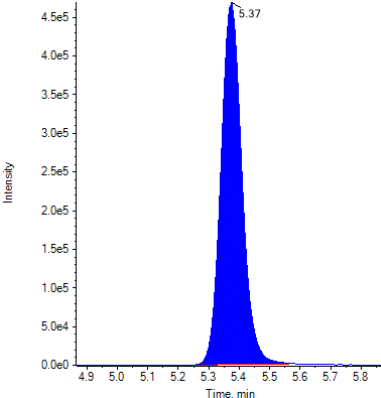
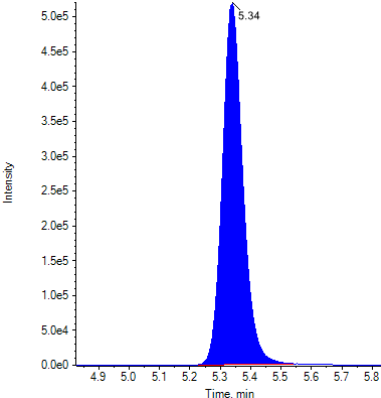
Sample Name	Area Ratio	Actual Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
Standard 1	0.5222	5.00	5.168	103.36
Standard 2	0.9878	10.00	9.569	95.69
Standard 3	2.7327	25.00	26.060	104.24
Standard 4	5.0682	50.00	48.133	96.27
Standard 5	7.7121	75.00	73.123	97.50
Standard 6	10.8677	100.00	102.947	102.95
Low A	0.7595	8.00	7.410	92.63
Low B	0.8026	8.00	7.818	97.72
Low C	0.7508	8.00	7.329	91.61
Medium A	4.2183	40.00	40.101	100.25
Medium B	4.1588	40.00	39.539	98.85
Medium C	4.2621	40.00	40.515	101.29
High A	7.3451	80.00	69.654	87.07
High B	7.6162	80.00	72.216	90.27
High C	7.3572	80.00	69.768	87.21
Negative	N/A	0.00	N/A	N/A
Standard 1 A	0.5123	5.00	5.074	101.48
Standard 1 B	0.5258	5.00	5.202	104.04
Standard 1 C	0.4780	5.00	4.750	95.00

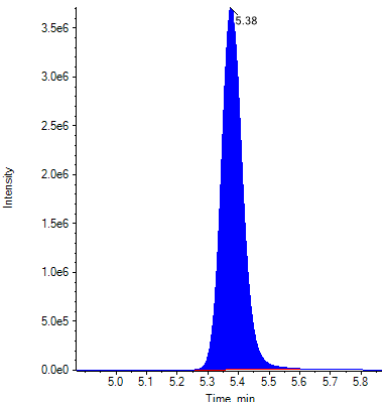
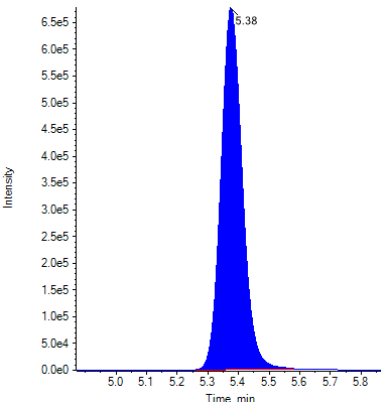
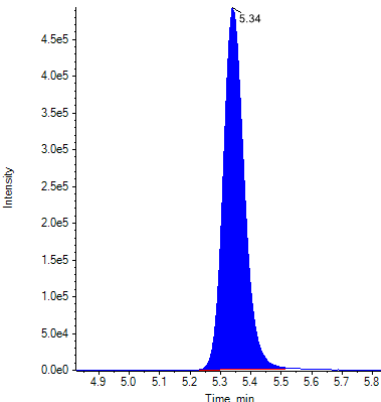
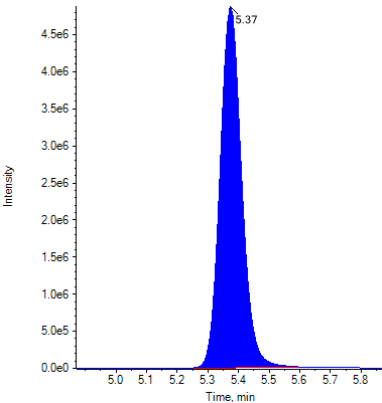
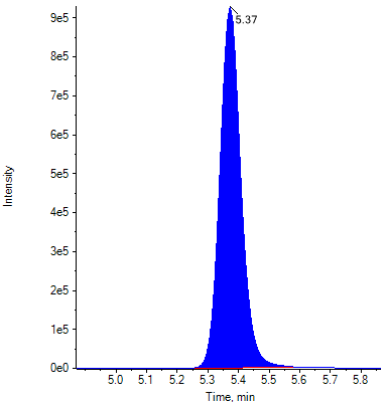
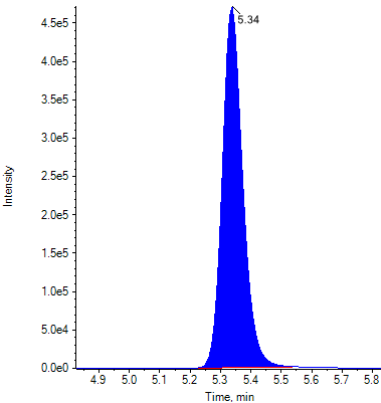
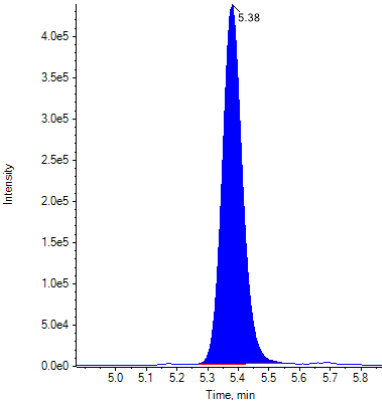
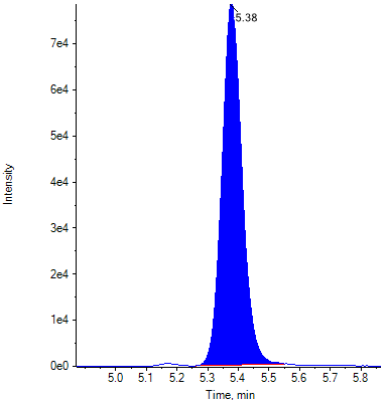
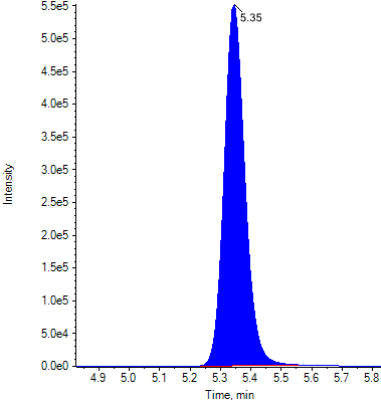
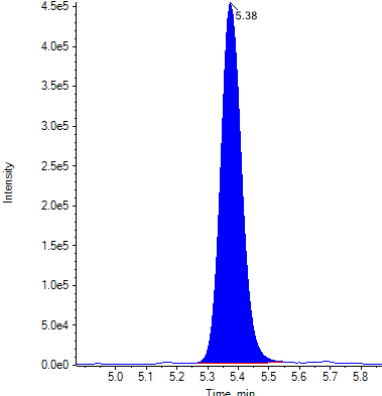
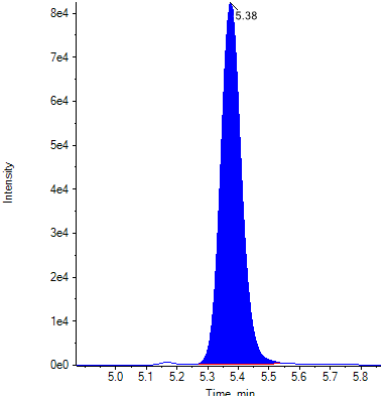
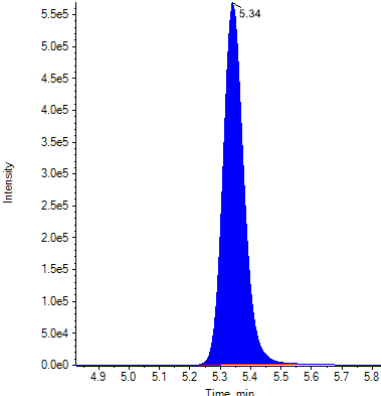
Identification Summary: THC-COOH

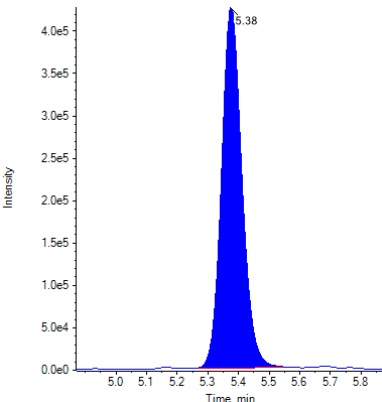
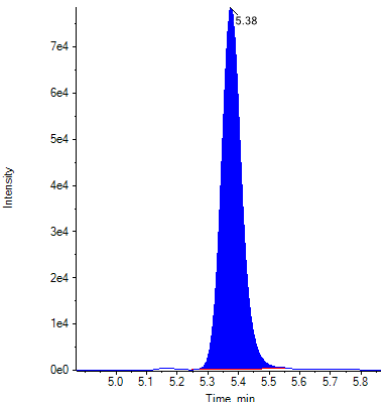
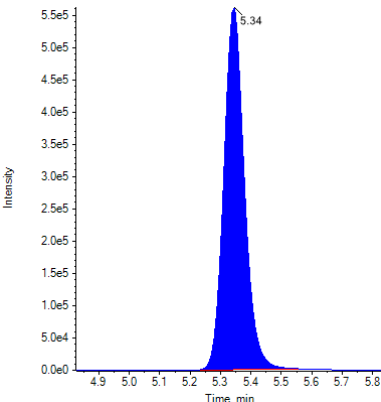
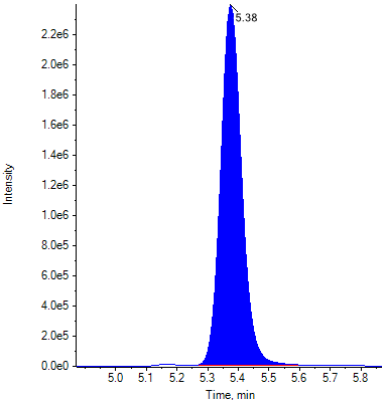
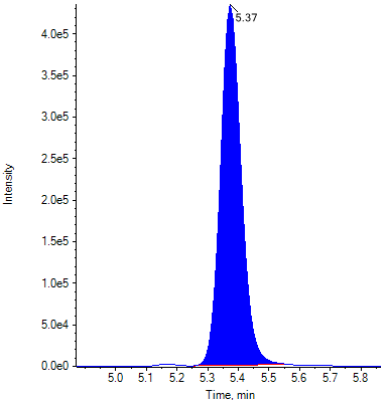
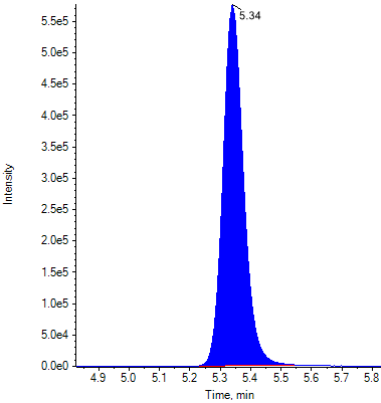
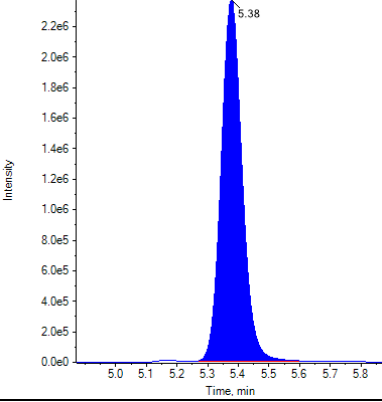
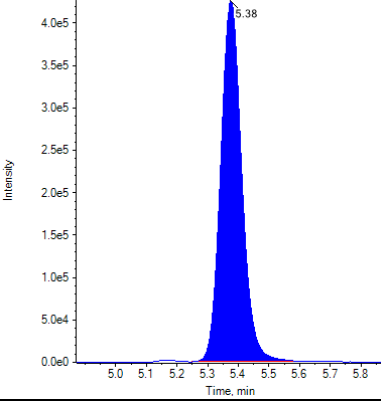
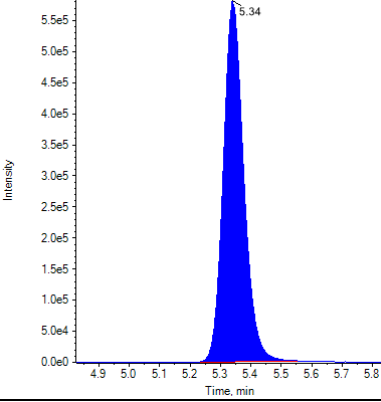
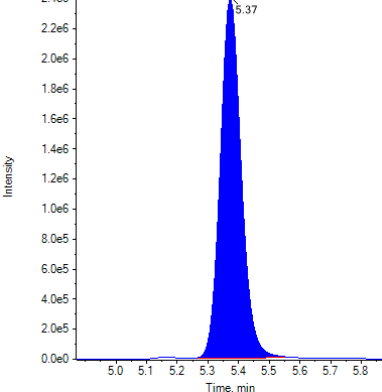
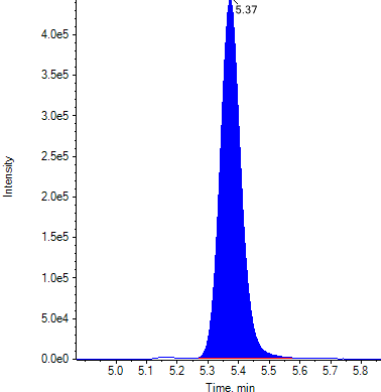
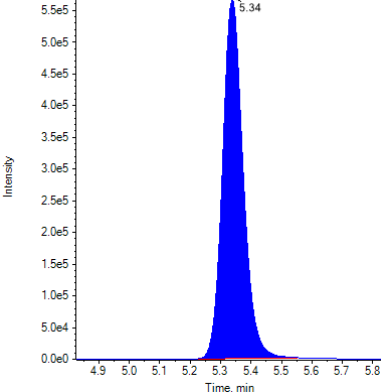
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 1	THC-COOH 1	1.006 (Pass)	0.184 (Pass)
	THC-COOH 2	1.006 (Pass)	
Standard 2	THC-COOH 1	1.006 (Pass)	0.182 (Pass)

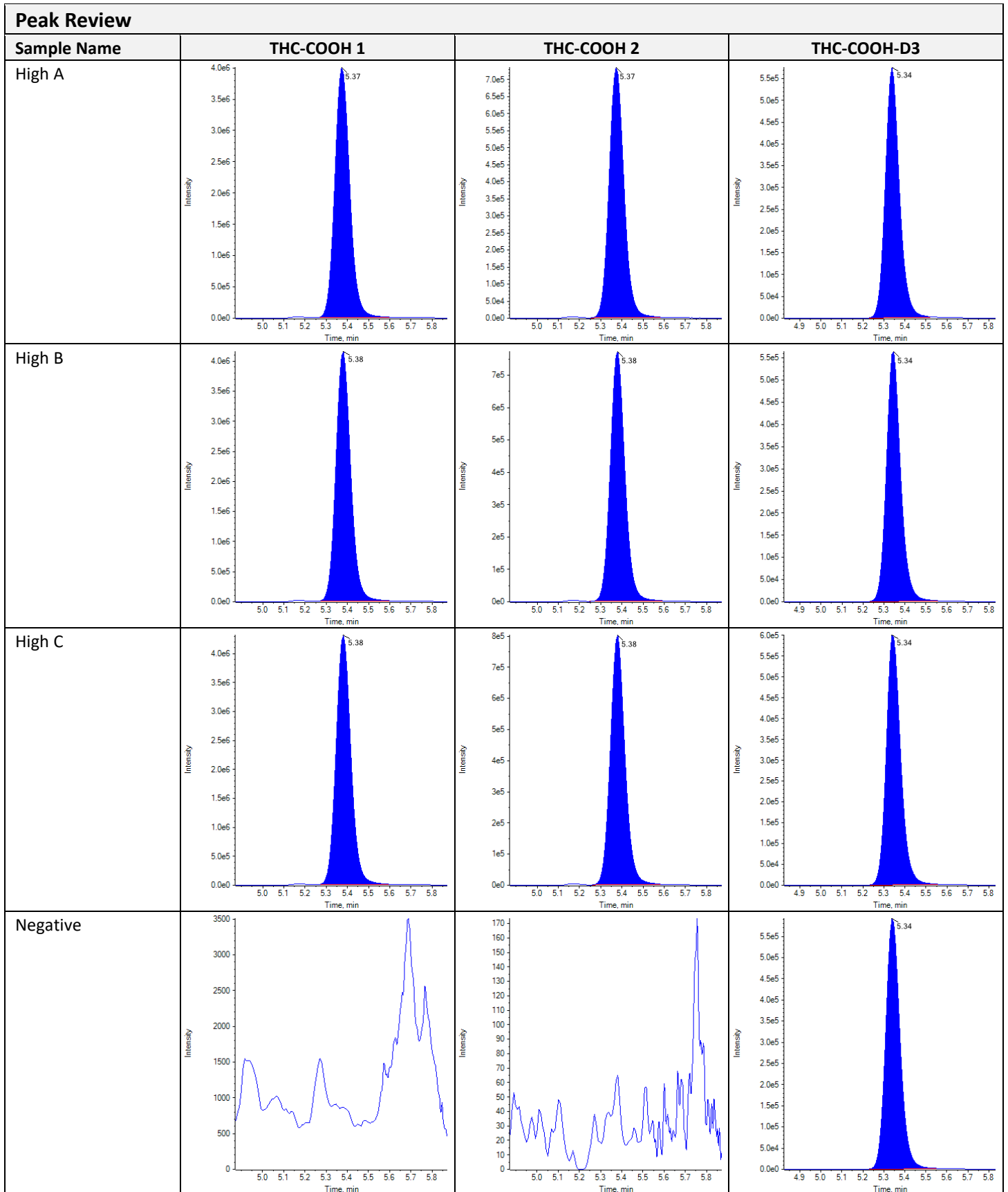
Identification Summary: THC-COOH			
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
	THC-COOH 2	1.006 (Pass)	
Standard 3	THC-COOH 1	1.006 (Pass)	0.179 (Pass)
	THC-COOH 2	1.006 (Pass)	
Standard 4	THC-COOH 1	1.007 (Pass)	0.183 (Pass)
	THC-COOH 2	1.006 (Pass)	
Standard 5	THC-COOH 1	1.007 (Pass)	0.181 (Pass)
	THC-COOH 2	1.006 (Pass)	
Standard 6	THC-COOH 1	1.007 (Pass)	0.186 (Pass)
	THC-COOH 2	1.006 (Pass)	
Low A	THC-COOH 1	1.006 (Pass)	0.182 (Pass)
	THC-COOH 2	1.006 (Pass)	
Low B	THC-COOH 1	1.006 (Pass)	0.182 (Pass)
	THC-COOH 2	1.006 (Pass)	
Low C	THC-COOH 1	1.006 (Pass)	0.183 (Pass)
	THC-COOH 2	1.006 (Pass)	
Medium A	THC-COOH 1	1.007 (Pass)	0.180 (Pass)
	THC-COOH 2	1.006 (Pass)	
Medium B	THC-COOH 1	1.007 (Pass)	0.180 (Pass)
	THC-COOH 2	1.006 (Pass)	
Medium C	THC-COOH 1	1.006 (Pass)	0.184 (Pass)
	THC-COOH 2	1.006 (Pass)	
High A	THC-COOH 1	1.007 (Pass)	0.183 (Pass)
	THC-COOH 2	1.007 (Pass)	
High B	THC-COOH 1	1.007 (Pass)	0.183 (Pass)
	THC-COOH 2	1.006 (Pass)	
High C	THC-COOH 1	1.007 (Pass)	0.183 (Pass)
	THC-COOH 2	1.007 (Pass)	
Negative	THC-COOH 1	N/A ()	N/A ()
	THC-COOH 2	N/A ()	
Standard 1 A	THC-COOH 1	1.006 (Pass)	0.182 (Pass)
	THC-COOH 2	1.006 (Pass)	
Standard 1 B	THC-COOH 1	1.006 (Pass)	0.179 (Pass)
	THC-COOH 2	1.006 (Pass)	
Standard 1 C	THC-COOH 1	1.006 (Pass)	0.183 (Pass)
	THC-COOH 2	1.006 (Pass)	

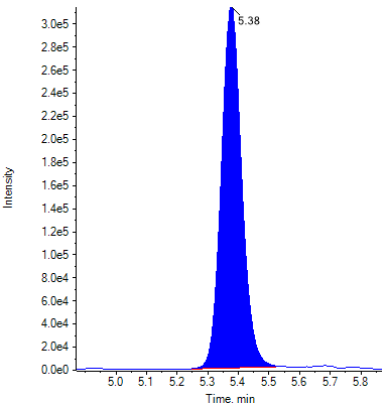
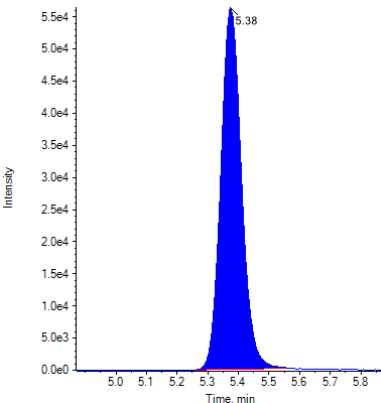
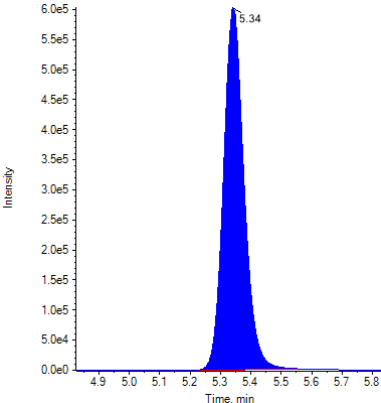
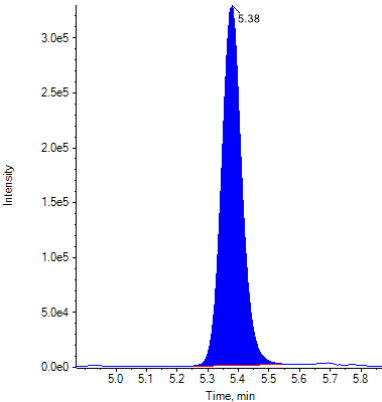
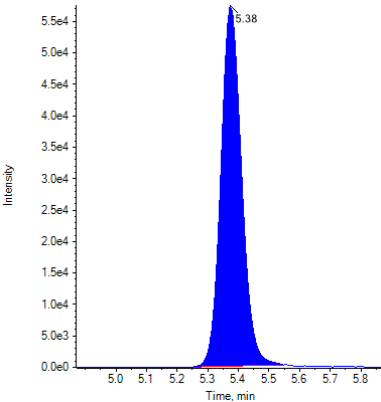
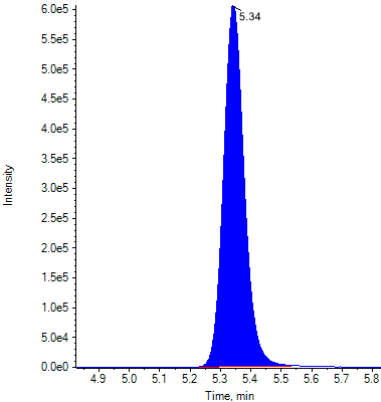
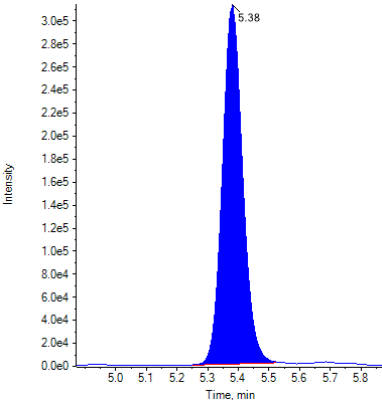
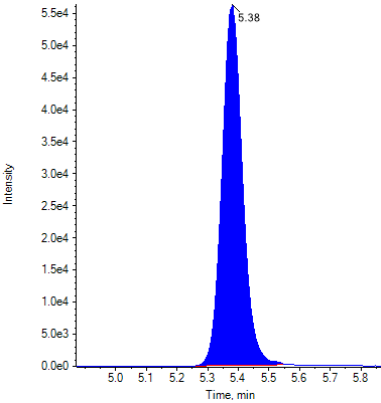
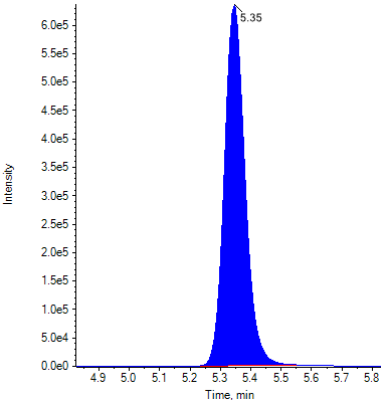
Peak Review			
Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3

Peak Review			
Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3
Standard 1			
Standard 2			
Standard 3			
Standard 4			

Peak Review			
Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3
Standard 5			
Standard 6			
Low A			
Low B			

Peak Review			
Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3
Low C			
Medium A			
Medium B			
Medium C			



Peak Review			
Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3
Standard 1 A			
Standard 1 B			
Standard 1 C			



Toxicology Unit
Calibration/Control Report
Quantitative Analysis

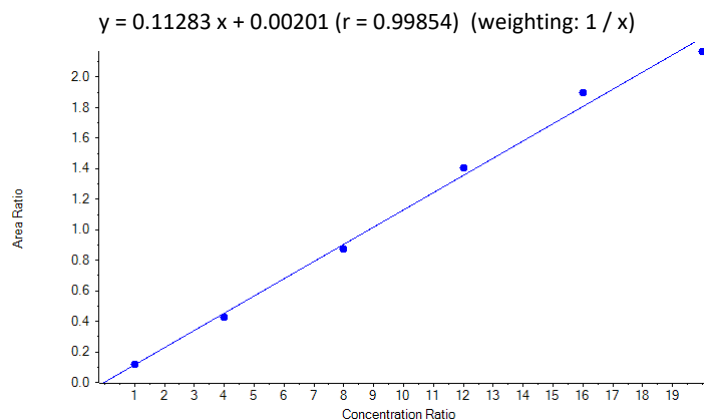
Batch Summary

Acquisition Method	THC.dam
Project	THC
Result Table	20220915LA

Result Table List

Sample Name	Sample Type	Position	Acquisition Time	Sample Comment
Standard 1	Standard	36	09/15/2022 16:11:52	
Standard 2	Standard	37	09/15/2022 16:25:57	
Standard 3	Standard	38	09/15/2022 16:40:02	
Standard 4	Standard	39	09/15/2022 16:54:05	
Standard 5	Standard	40	09/15/2022 17:08:07	
Standard 6	Standard	41	09/15/2022 17:22:12	
Low A	Quality Control	42	09/15/2022 17:36:18	
Low B	Quality Control	43	09/15/2022 17:50:23	
Low C	Quality Control	44	09/15/2022 18:04:29	
Medium A	Quality Control	45	09/15/2022 18:18:34	
Medium B	Quality Control	46	09/15/2022 18:32:39	
Medium C	Quality Control	47	09/15/2022 18:46:45	
High A	Quality Control	48	09/15/2022 19:00:50	
High B	Quality Control	49	09/15/2022 19:14:56	
High C	Quality Control	50	09/15/2022 19:29:01	
Negative	Quality Control	51	09/15/2022 19:43:06	
Standard 1 A	Quality Control	52	09/15/2022 19:57:12	
Standard 1 B	Quality Control	53	09/15/2022 20:11:17	
Standard 1 C	Quality Control	54	09/15/2022 20:25:23	

Calibration Summary: THC-OH



Analyte Transition Mass	
Internal Standard	THC-OH-D3
I.S. Transition Mass	334.1 / 196.1
THC-OH 1	331.1 / 193.1
THC-OH 2	331.1 / 105.1
Relative Retention time: Expected (Acceptance Range)	
THC-OH 1	1.007 (0.982-1.032)
THC-OH 2	1.006 (0.981-1.031)
Ion Ratio: Expected (Acceptance Range)	
THC-OH 2	0.687 (0.550-0.824)
THC-OH comment	

Quantitative Summary: THC-OH

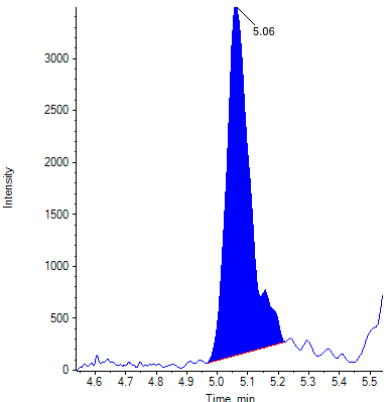
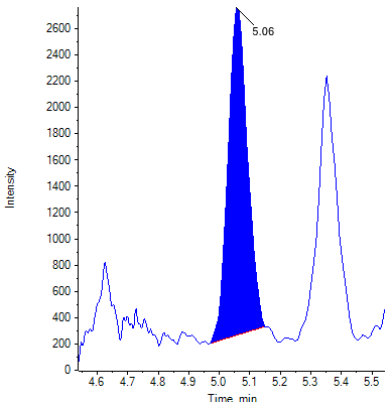
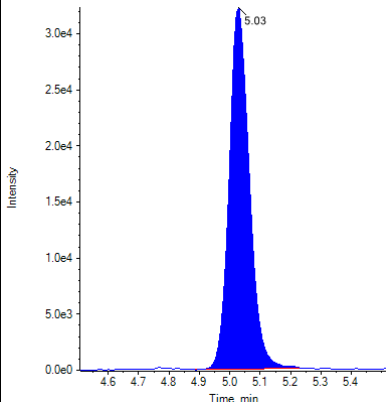
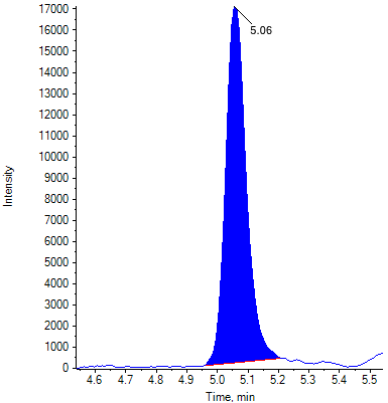
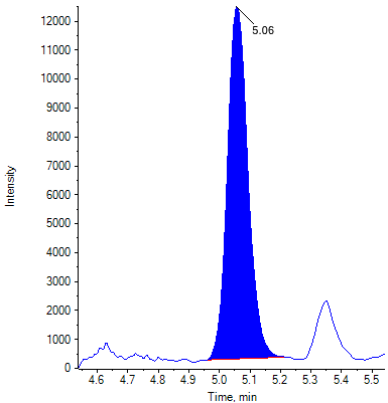
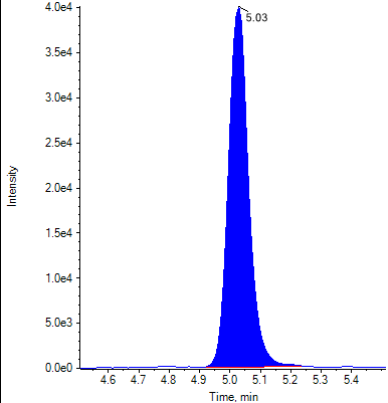
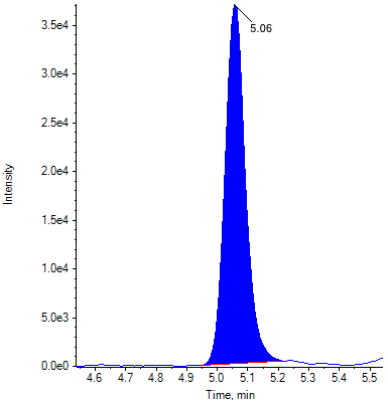
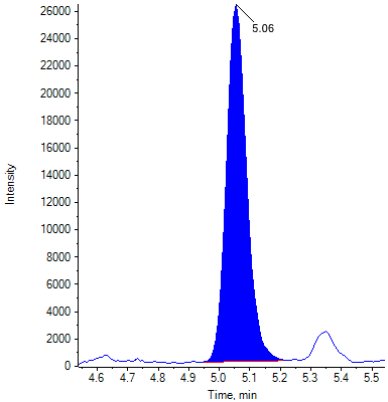
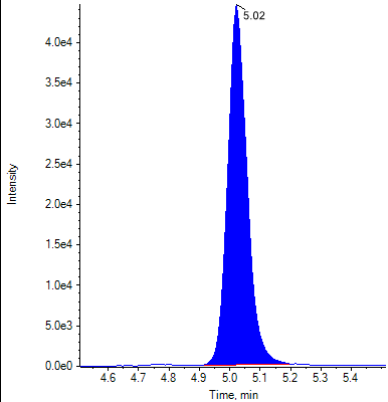
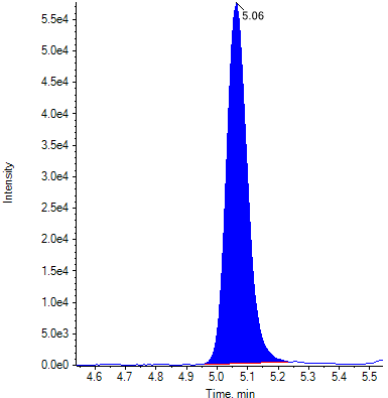
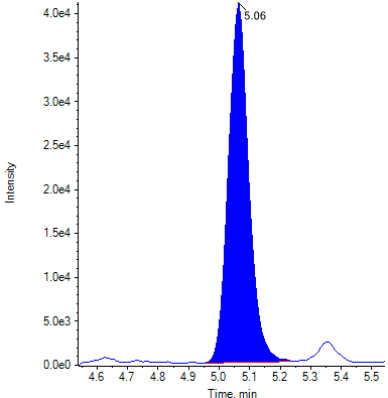
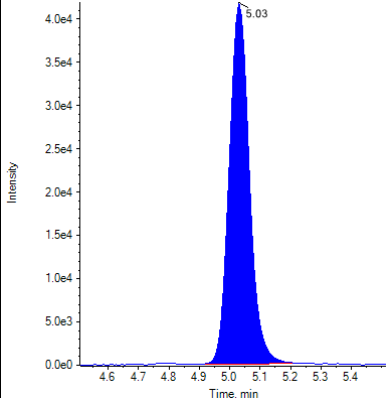
Sample Name	Area Ratio	Actual Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
Standard 1	0.1194	1.00	1.040	104.03
Standard 2	0.4285	4.00	3.780	94.50
Standard 3	0.8752	8.00	7.739	96.73
Standard 4	1.4084	12.00	12.465	103.87
Standard 5	1.8958	16.00	16.785	104.91
Standard 6	2.1673	20.00	19.191	95.96
Low A	0.2308	2.00	2.027	101.37
Low B	0.2267	2.00	1.992	99.59
Low C	0.2211	2.00	1.942	97.09
Medium A	1.2077	10.00	10.687	106.87
Medium B	1.1325	10.00	10.020	100.20
Medium C	1.1601	10.00	10.265	102.65
High A	1.8973	18.00	16.798	93.32
High B	1.9570	18.00	17.327	96.26
High C	1.9483	18.00	17.250	95.83
Negative	N/A	0.00	N/A	N/A
Standard 1 A	0.1167	1.00	1.016	101.62
Standard 1 B	0.1184	1.00	1.032	103.17
Standard 1 C	0.1173	1.00	1.022	102.15

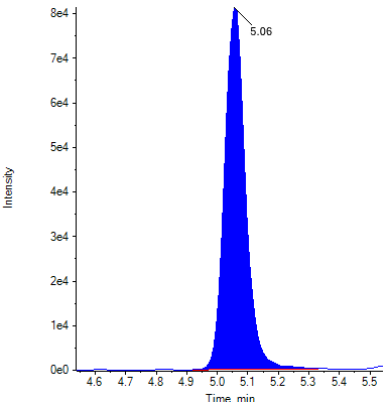
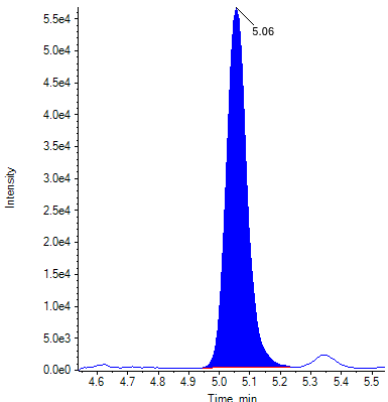
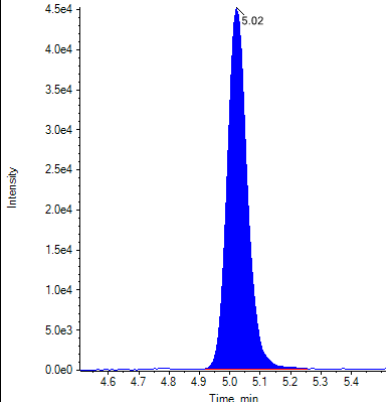
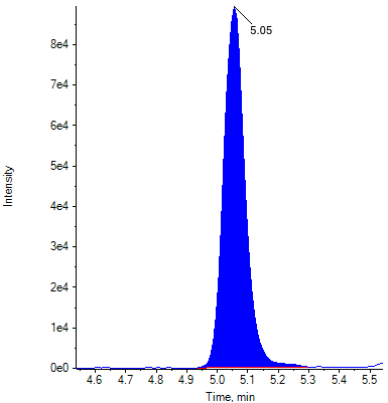
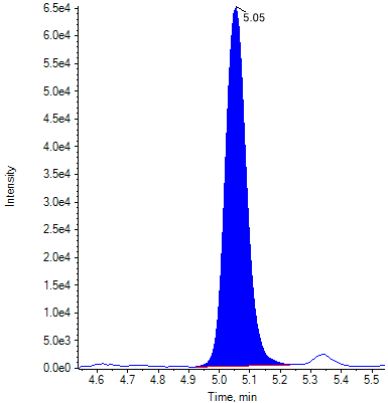
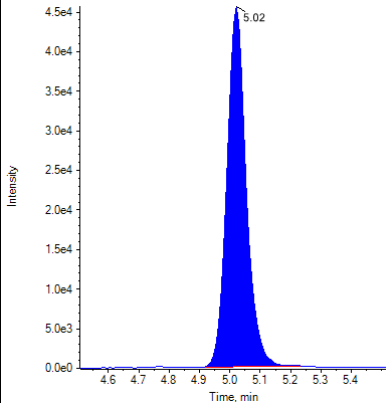
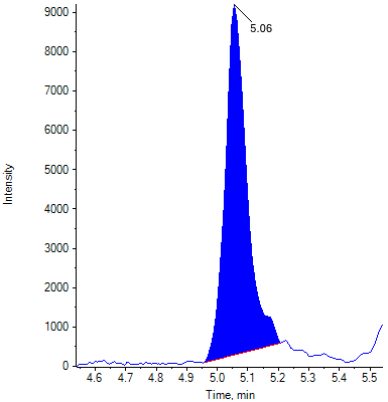
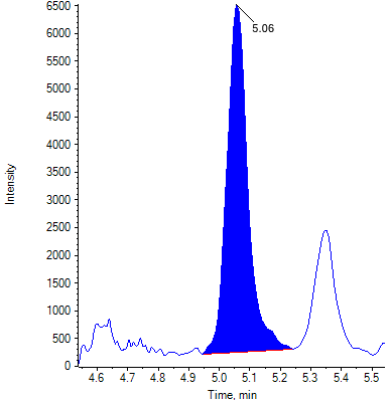
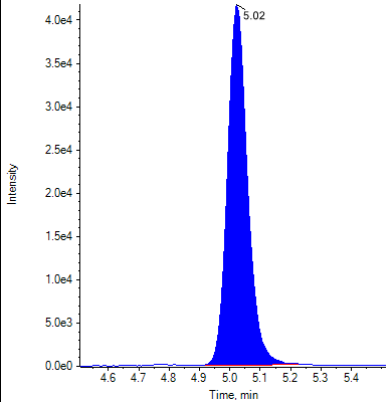
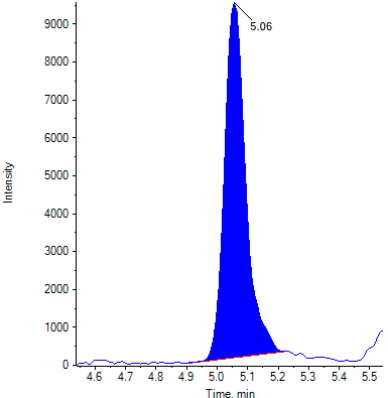
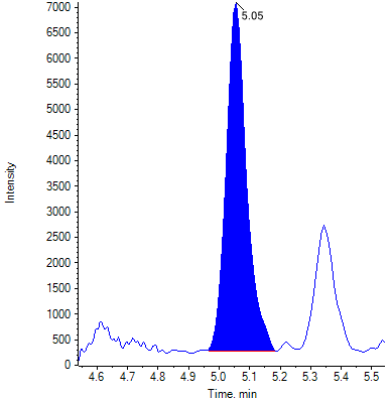
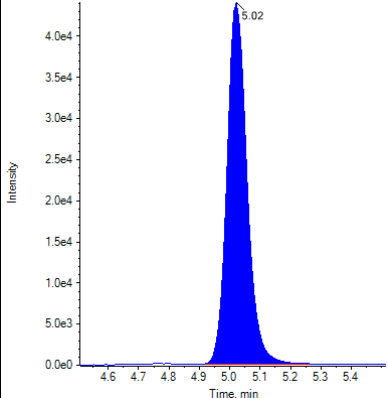
Identification Summary: THC-OH

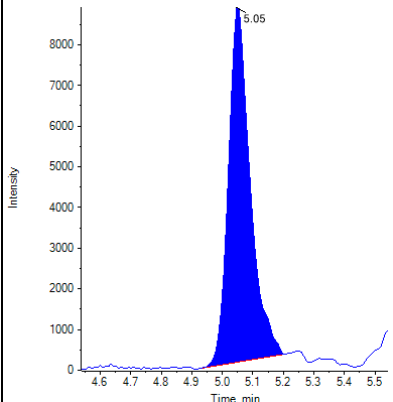
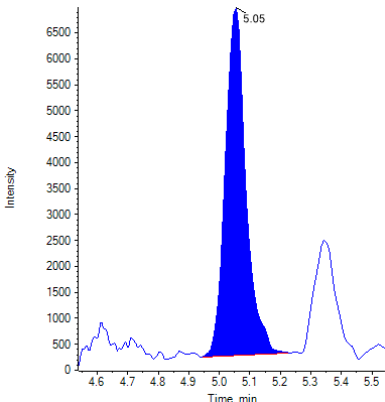
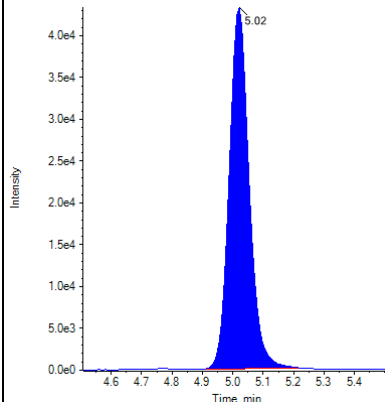
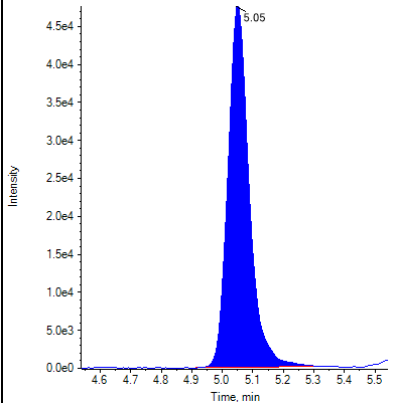
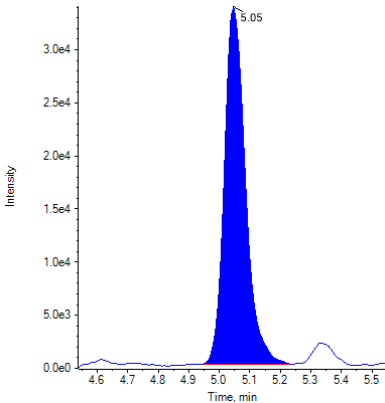
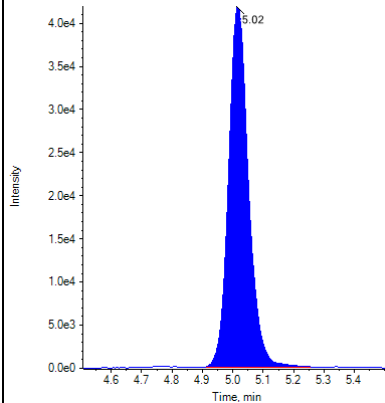
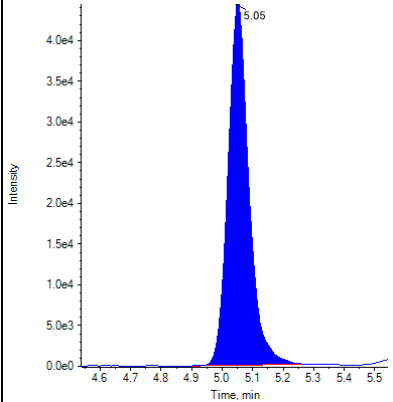
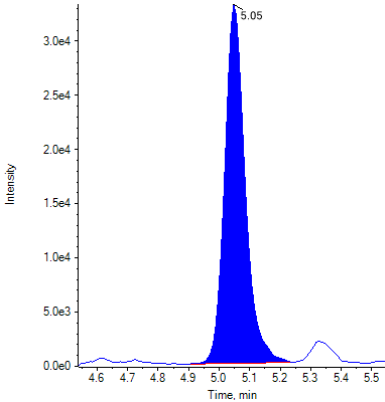
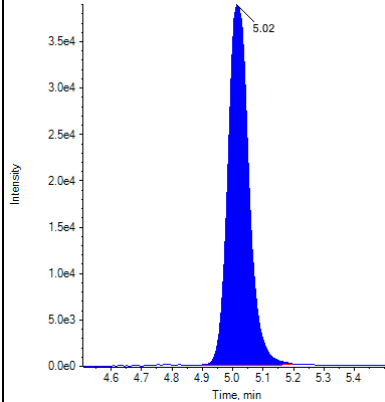
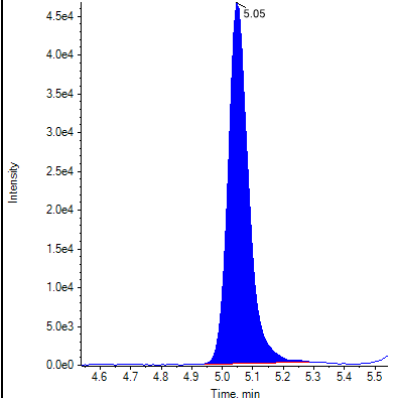
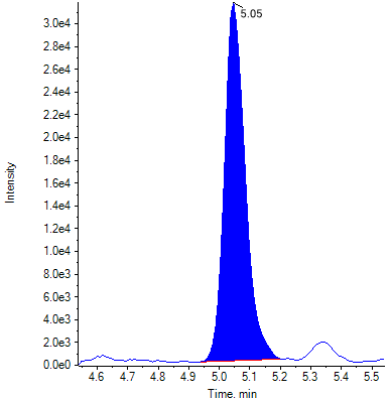
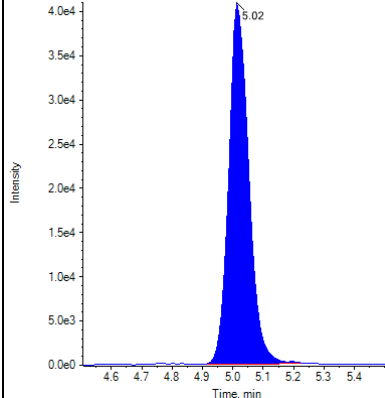
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 1	THC-OH 1	1.007 (Pass)	0.619 (Pass)
	THC-OH 2	1.006 (Pass)	
Standard 2	THC-OH 1	1.006 (Pass)	0.720 (Pass)
	THC-OH 2	1.006 (Pass)	

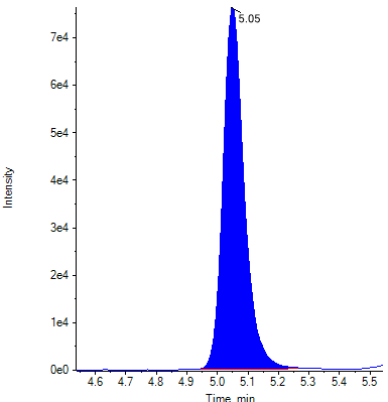
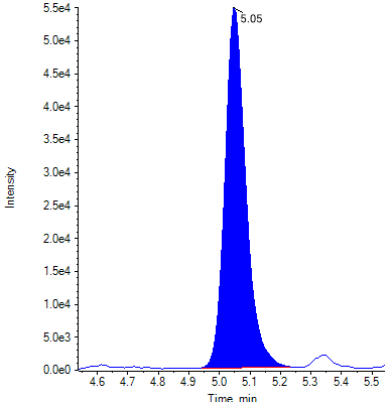
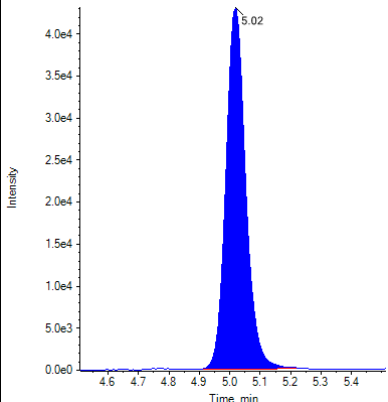
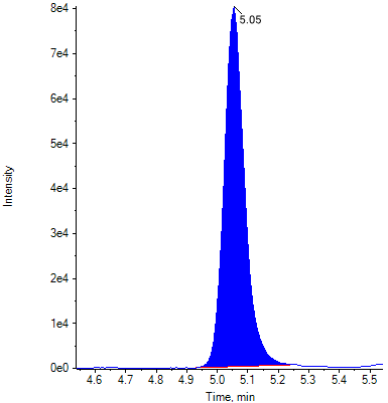
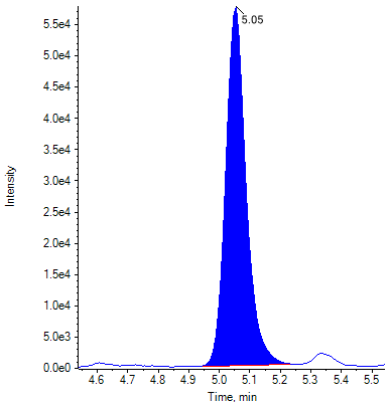
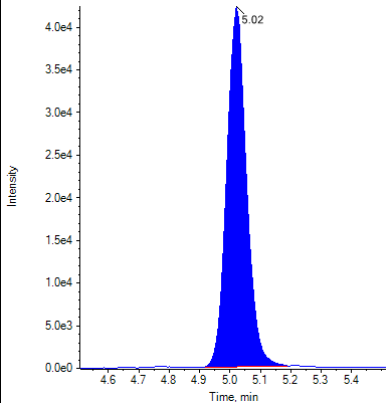
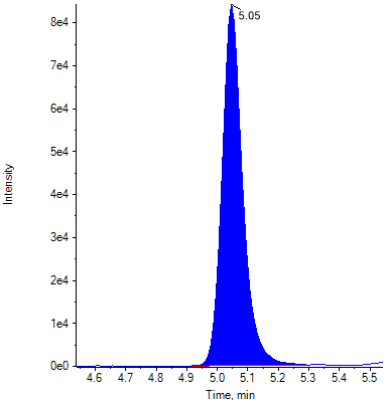
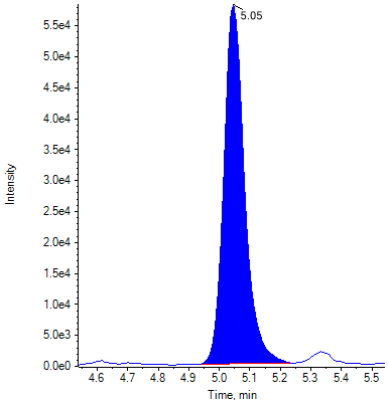
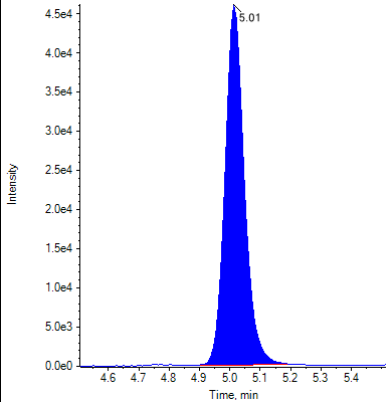
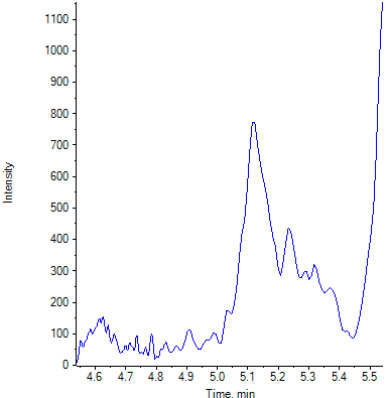
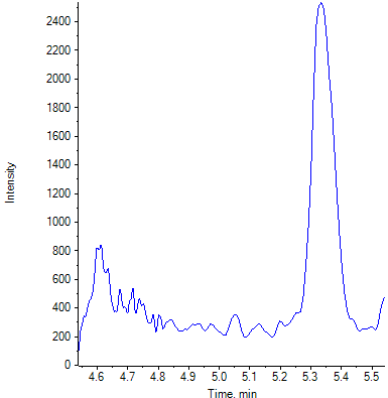
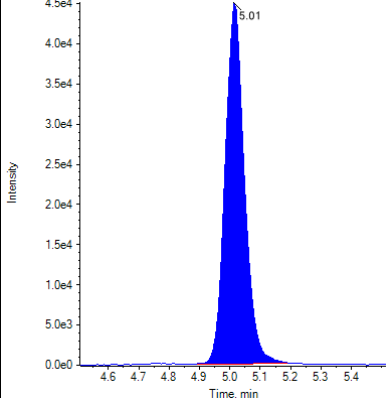
Identification Summary: THC-OH			
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 3	THC-OH 1	1.007 (Pass)	0.701 (Pass)
	THC-OH 2	1.006 (Pass)	
Standard 4	THC-OH 1	1.006 (Pass)	0.698 (Pass)
	THC-OH 2	1.006 (Pass)	
Standard 5	THC-OH 1	1.007 (Pass)	0.676 (Pass)
	THC-OH 2	1.007 (Pass)	
Standard 6	THC-OH 1	1.007 (Pass)	0.709 (Pass)
	THC-OH 2	1.006 (Pass)	
Low A	THC-OH 1	1.007 (Pass)	0.684 (Pass)
	THC-OH 2	1.007 (Pass)	
Low B	THC-OH 1	1.007 (Pass)	0.689 (Pass)
	THC-OH 2	1.006 (Pass)	
Low C	THC-OH 1	1.007 (Pass)	0.725 (Pass)
	THC-OH 2	1.006 (Pass)	
Medium A	THC-OH 1	1.007 (Pass)	0.703 (Pass)
	THC-OH 2	1.006 (Pass)	
Medium B	THC-OH 1	1.007 (Pass)	0.734 (Pass)
	THC-OH 2	1.006 (Pass)	
Medium C	THC-OH 1	1.006 (Pass)	0.689 (Pass)
	THC-OH 2	1.006 (Pass)	
High A	THC-OH 1	1.006 (Pass)	0.702 (Pass)
	THC-OH 2	1.006 (Pass)	
High B	THC-OH 1	1.007 (Pass)	0.718 (Pass)
	THC-OH 2	1.006 (Pass)	
High C	THC-OH 1	1.007 (Pass)	0.694 (Pass)
	THC-OH 2	1.006 (Pass)	
Negative	THC-OH 1	N/A ()	N/A ()
	THC-OH 2	N/A ()	
Standard 1 A	THC-OH 1	1.007 (Pass)	0.649 (Pass)
	THC-OH 2	1.006 (Pass)	
Standard 1 B	THC-OH 1	1.007 (Pass)	0.650 (Pass)
	THC-OH 2	1.007 (Pass)	
Standard 1 C	THC-OH 1	1.007 (Pass)	0.606 (Pass)
	THC-OH 2	1.007 (Pass)	

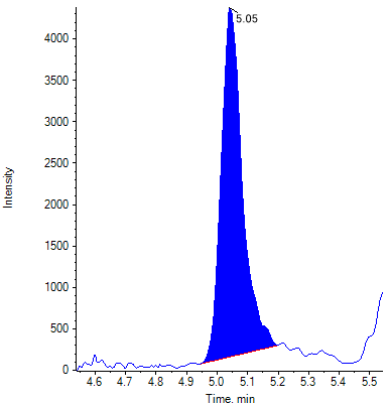
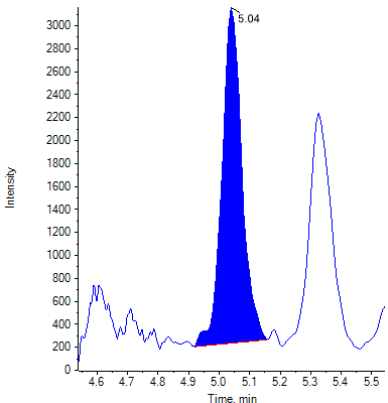
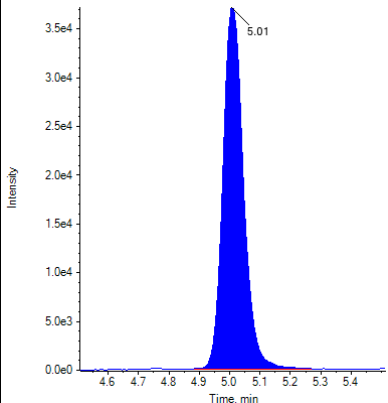
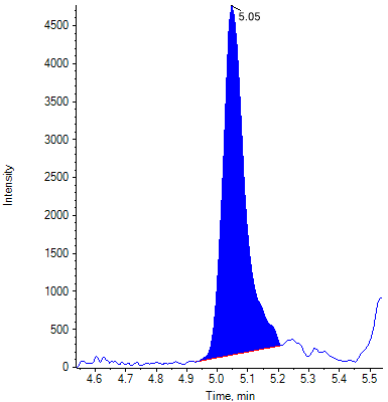
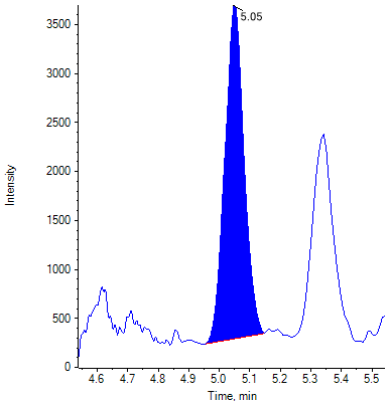
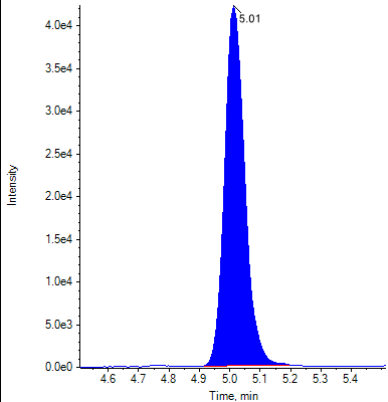
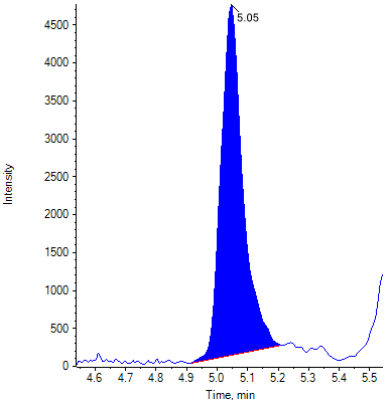
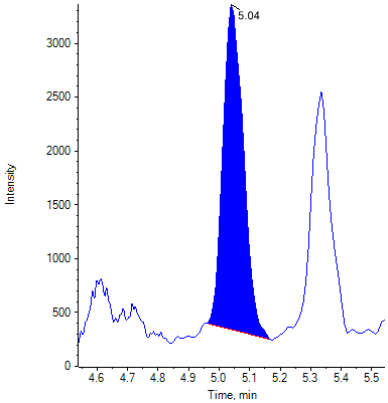
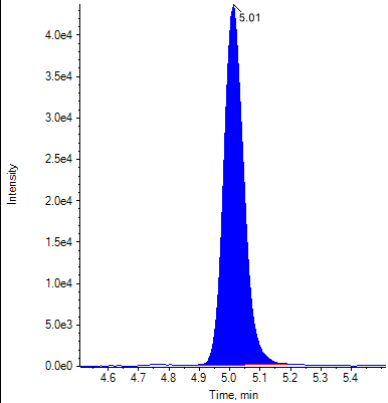
Peak Review			
Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3

Peak Review			
Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3
Standard 1			
Standard 2			
Standard 3			
Standard 4			

Peak Review			
Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3
Standard 5			
Standard 6			
Low A			
Low B			

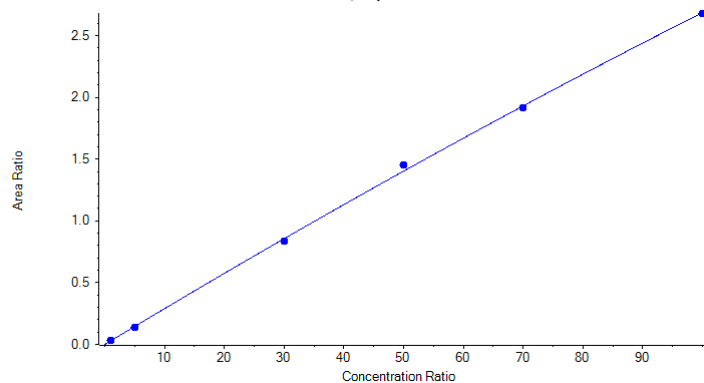
Peak Review			
Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3
Low C			
Medium A			
Medium B			
Medium C			

Peak Review			
Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3
High A			
High B			
High C			
Negative			

Peak Review			
Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3
Standard 1 A			
Standard 1 B			
Standard 1 C			

Calibration Summary: Δ9-THC

$$y = -2.39996e-5 x^2 + 0.02927 x + -6.53522e-4 \quad (r = 0.99977) \quad (\text{weighting: } 1/x)$$

**Analyte Transition Mass**

Internal Standard	Δ9-THC-D3
I.S. Transition Mass	318.1 / 123.0
Δ9-THC 1	315.1 / 193.1
Δ9-THC 2	315.1 / 123.0

Relative Retention time: Expected (Acceptance Range)

Δ9-THC 1	1.004 (0.979-1.029)
Δ9-THC 2	1.004 (0.979-1.029)

Ion Ratio: Expected (Acceptance Range)

Δ9-THC 2	0.705 (0.564-0.846)
Δ9-THC comment	

Quantitative Summary: Δ9-THC

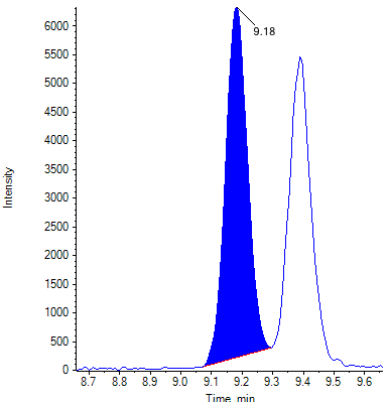
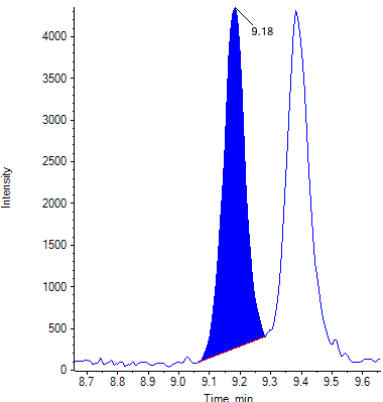
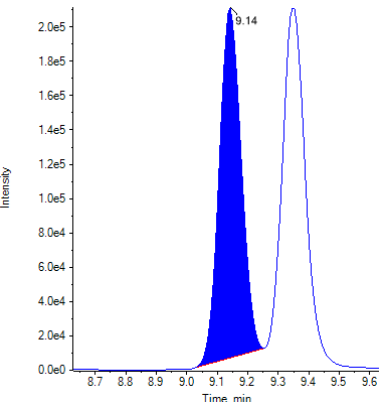
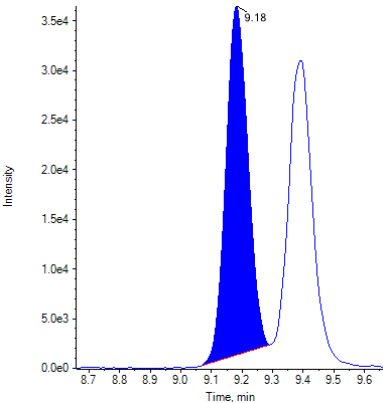
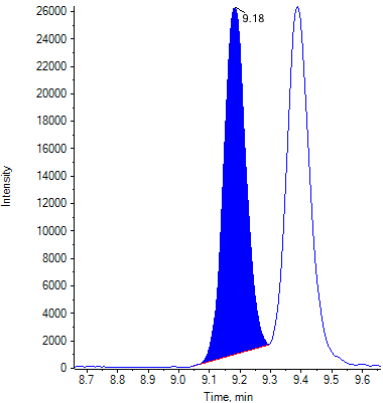
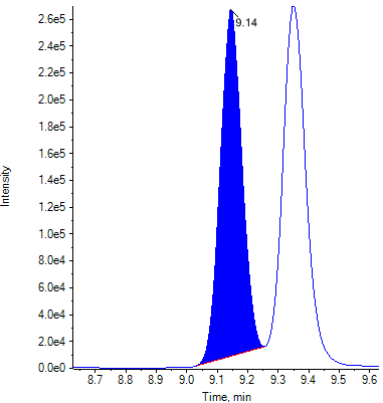
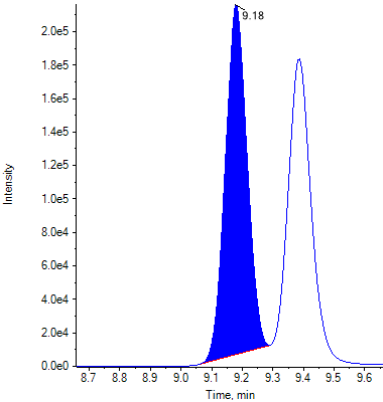
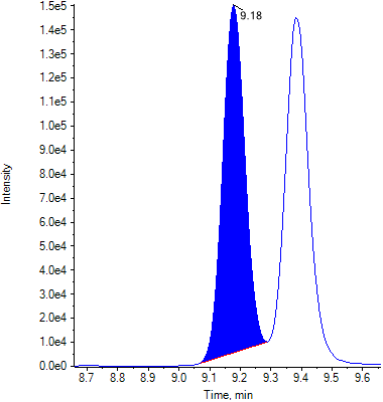
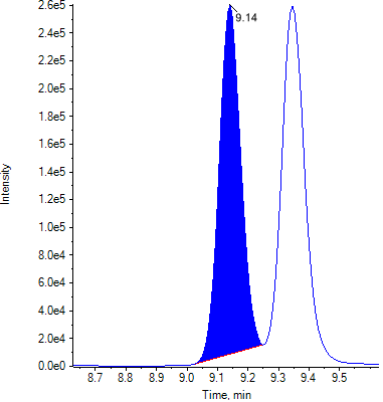
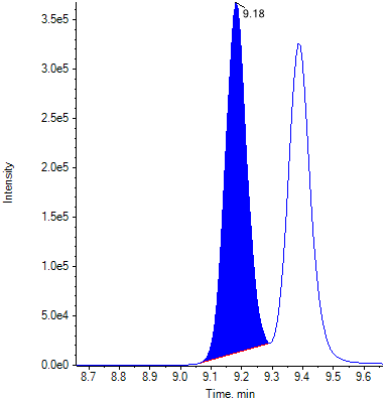
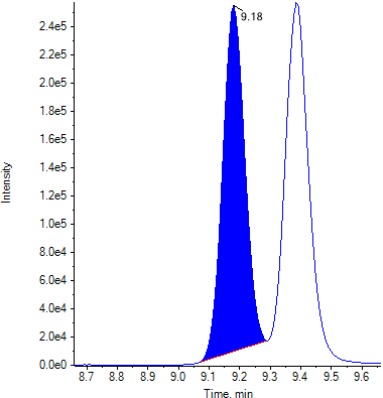
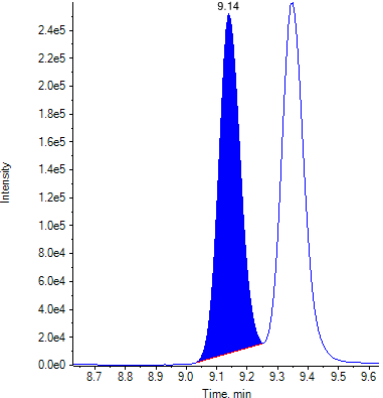
Sample Name	Area Ratio	Actual Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
Standard 1	0.0299	1.00	1.046	104.61
Standard 2	0.1385	5.00	4.774	95.47
Standard 3	0.8337	30.00	29.200	97.33
Standard 4	1.4524	50.00	51.841	103.68
Standard 5	1.9169	70.00	69.461	99.23
Standard 6	2.6787	100.00	99.677	99.68
Low A	0.0867	3.00	2.990	99.68
Low B	0.0846	3.00	2.920	97.34
Low C	0.0878	3.00	3.028	100.92
Medium A	1.2255	40.00	43.435	108.59
Medium B	1.1926	40.00	42.227	105.57
Medium C	1.1809	40.00	41.795	104.49
High A	2.3376	80.00	85.933	107.42
High B	2.4049	80.00	88.615	110.77
High C	2.3803	80.00	87.635	109.54
Negative	N/A	0.00	N/A	N/A
Standard 1 A	0.0277	1.00	0.969	96.95
Standard 1 B	0.0286	1.00	0.999	99.88
Standard 1 C	0.0294	1.00	1.027	102.71

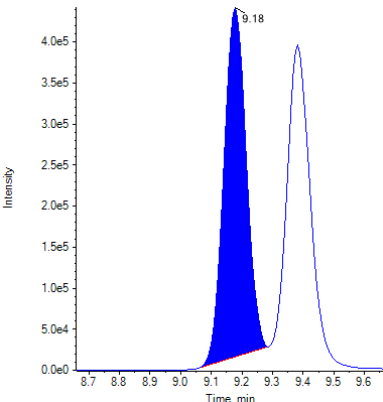
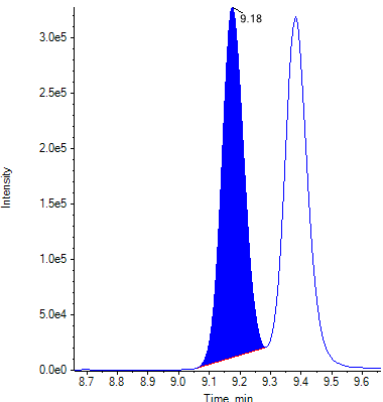
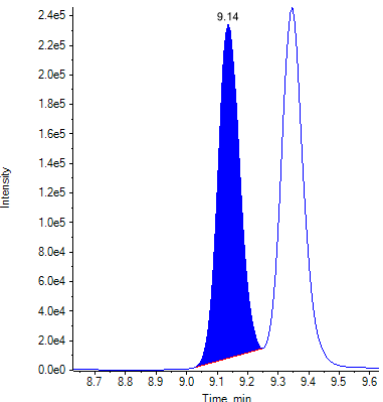
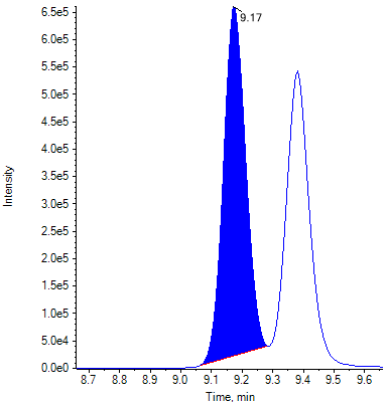
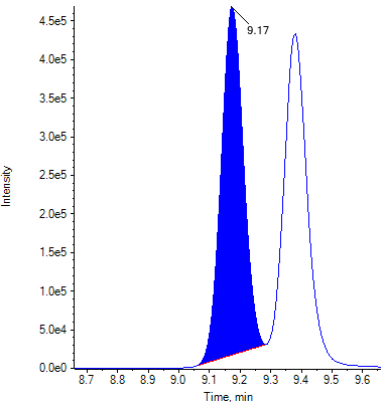
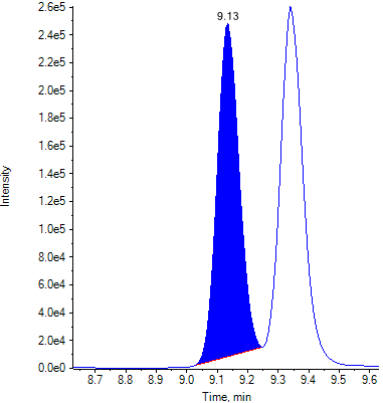
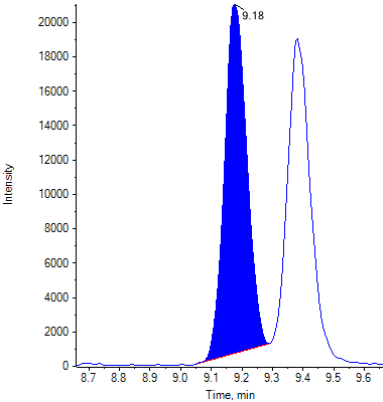
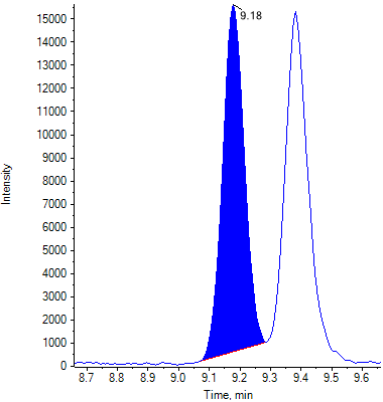
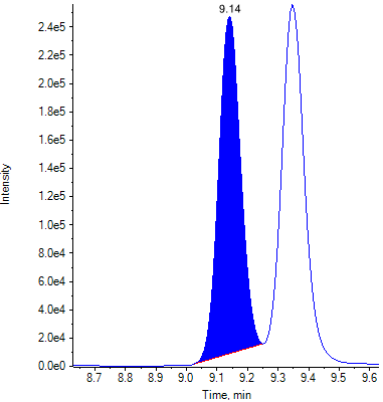
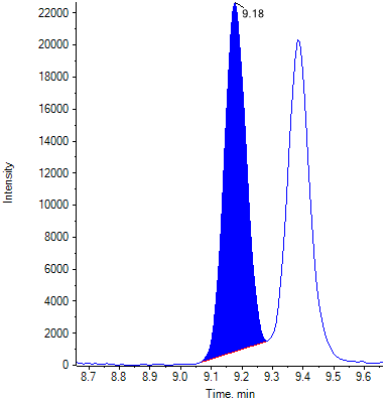
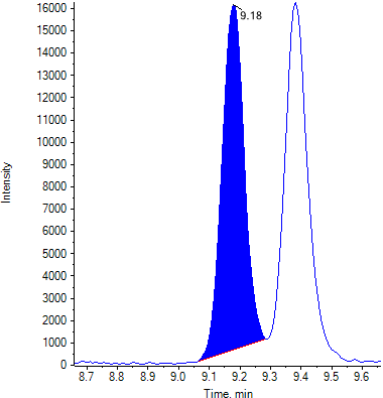
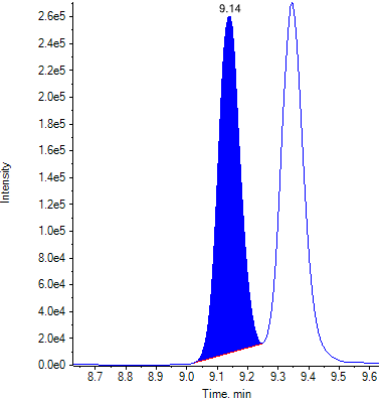
Identification Summary: Δ9-THC

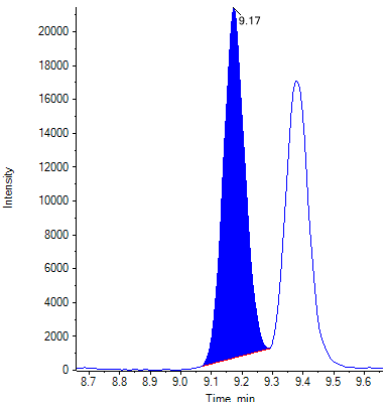
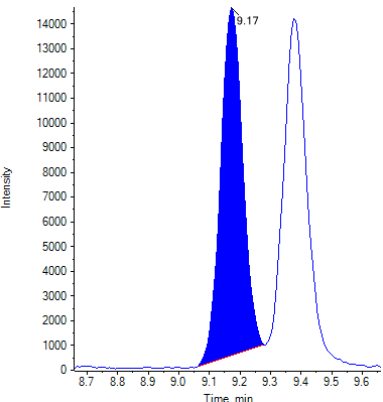
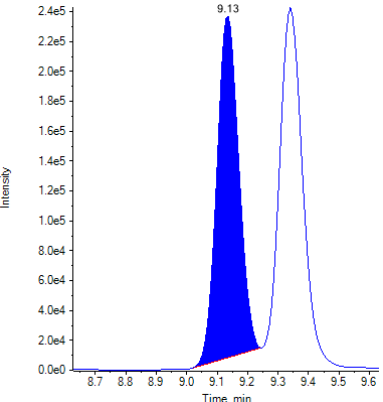
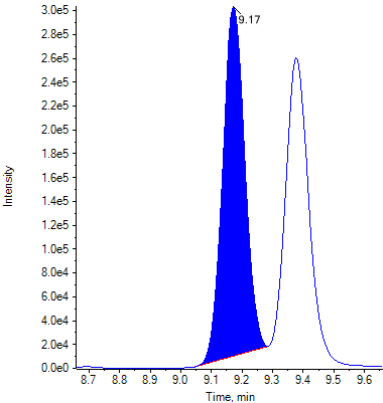
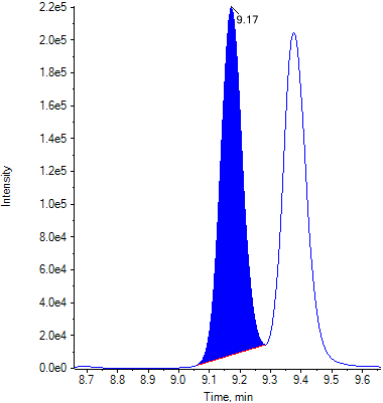
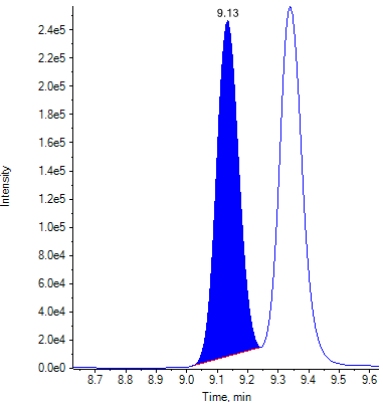
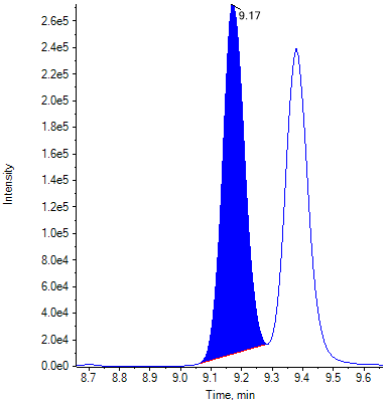
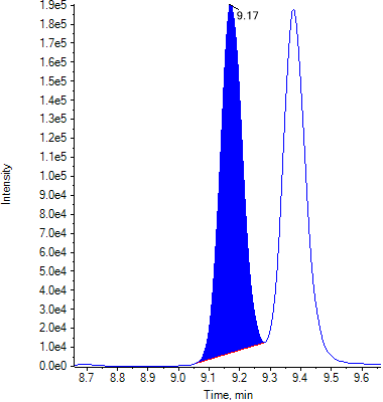
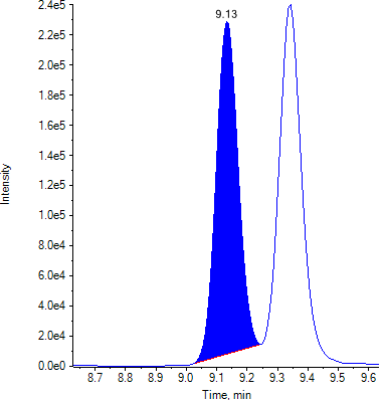
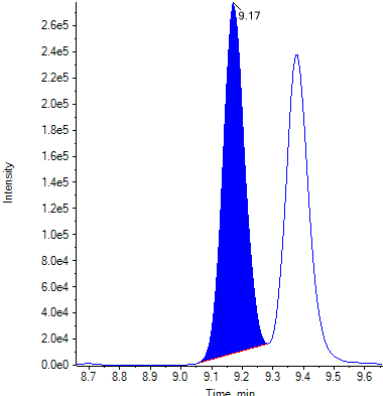
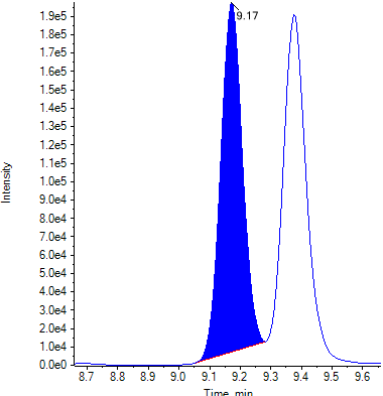
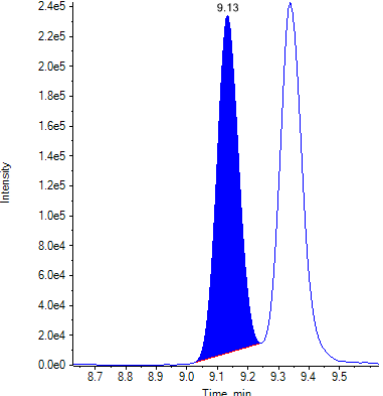
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 1	Δ9-THC 1	1.004 (Pass)	0.660 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Standard 2	Δ9-THC 1	1.004 (Pass)	0.716 (Pass)
	Δ9-THC 2	1.004 (Pass)	

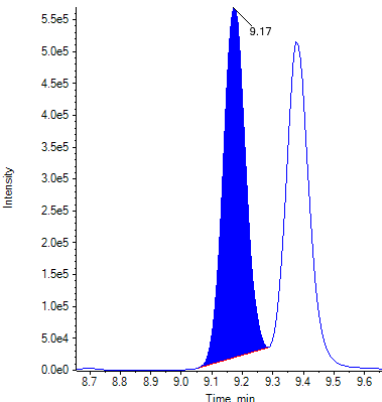
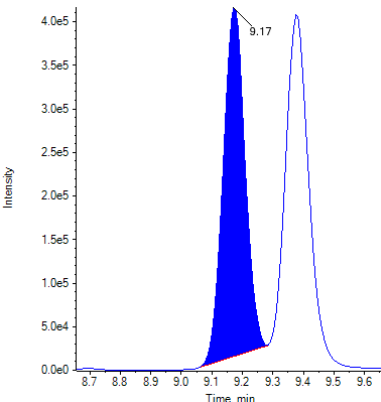
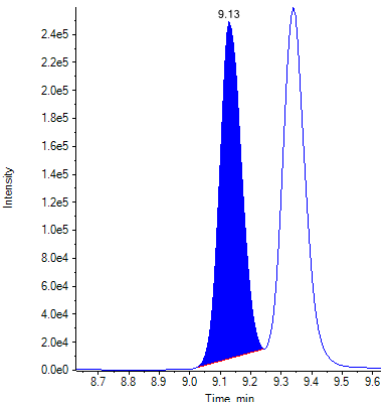
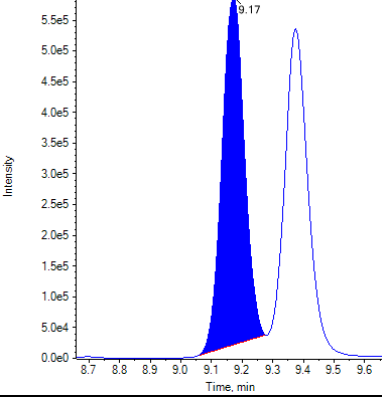
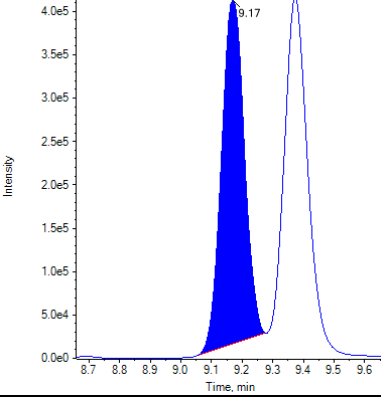
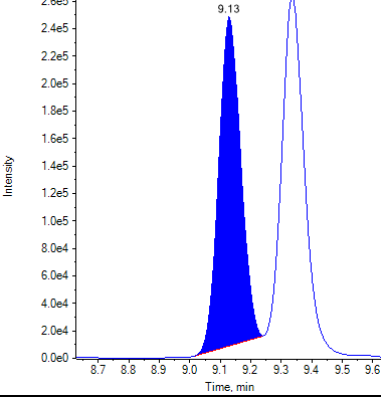
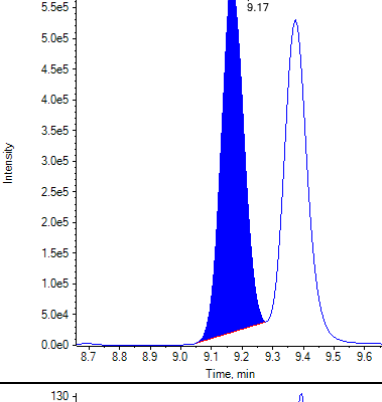
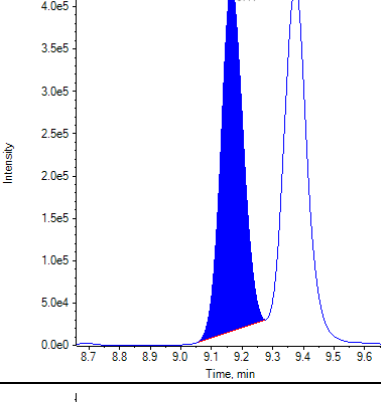
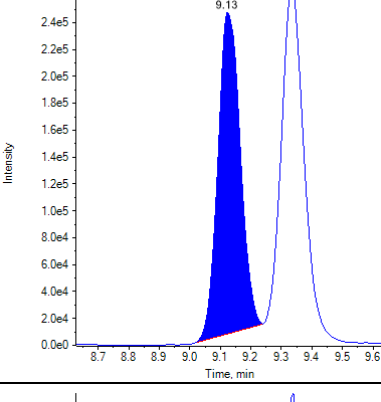
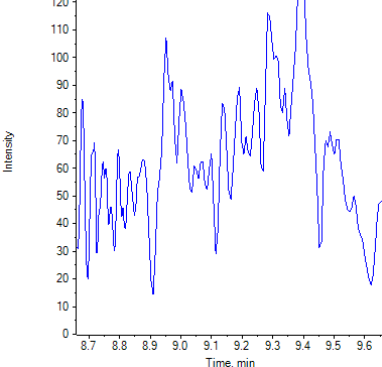
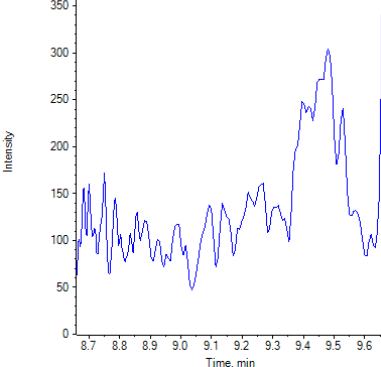
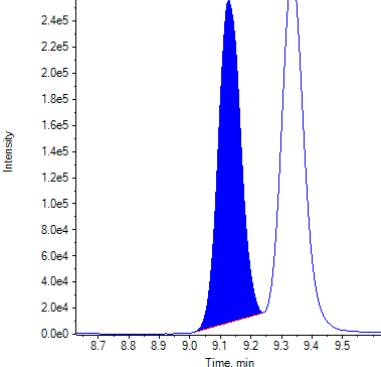
Identification Summary: Δ9-THC			
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 3	Δ9-THC 1	1.004 (Pass)	0.701 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Standard 4	Δ9-THC 1	1.004 (Pass)	0.705 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Standard 5	Δ9-THC 1	1.004 (Pass)	0.735 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Standard 6	Δ9-THC 1	1.004 (Pass)	0.714 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Low A	Δ9-THC 1	1.004 (Pass)	0.714 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Low B	Δ9-THC 1	1.004 (Pass)	0.727 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Low C	Δ9-THC 1	1.004 (Pass)	0.702 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Medium A	Δ9-THC 1	1.004 (Pass)	0.711 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Medium B	Δ9-THC 1	1.004 (Pass)	0.706 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Medium C	Δ9-THC 1	1.004 (Pass)	0.712 (Pass)
	Δ9-THC 2	1.004 (Pass)	
High A	Δ9-THC 1	1.004 (Pass)	0.714 (Pass)
	Δ9-THC 2	1.004 (Pass)	
High B	Δ9-THC 1	1.004 (Pass)	0.713 (Pass)
	Δ9-THC 2	1.004 (Pass)	
High C	Δ9-THC 1	1.004 (Pass)	0.706 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Negative	Δ9-THC 1	N/A ()	N/A ()
	Δ9-THC 2	N/A ()	
Standard 1 A	Δ9-THC 1	1.004 (Pass)	0.691 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Standard 1 B	Δ9-THC 1	1.004 (Pass)	0.723 (Pass)
	Δ9-THC 2	1.004 (Pass)	
Standard 1 C	Δ9-THC 1	1.004 (Pass)	0.696 (Pass)
	Δ9-THC 2	1.004 (Pass)	

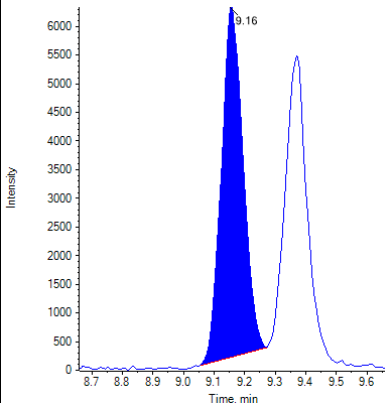
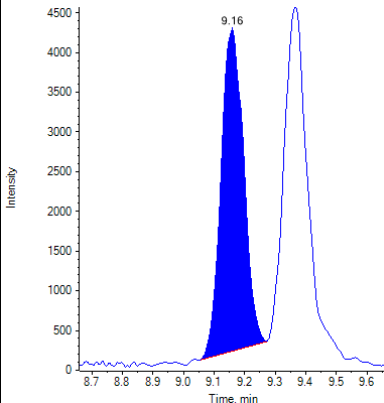
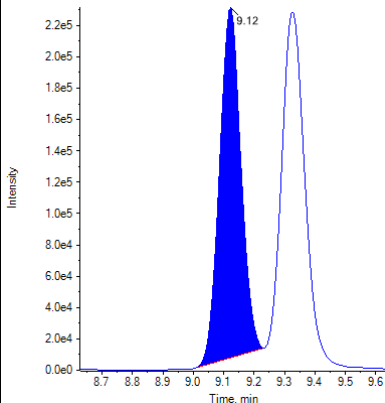
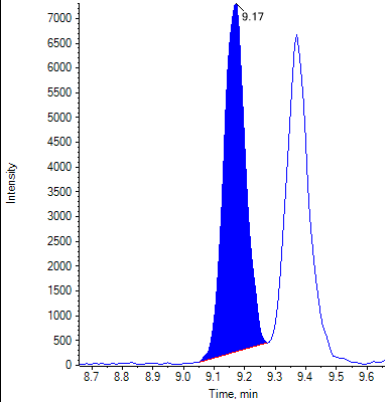
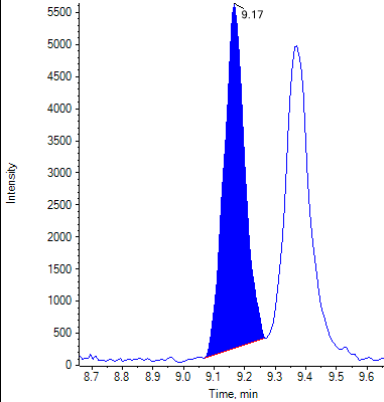
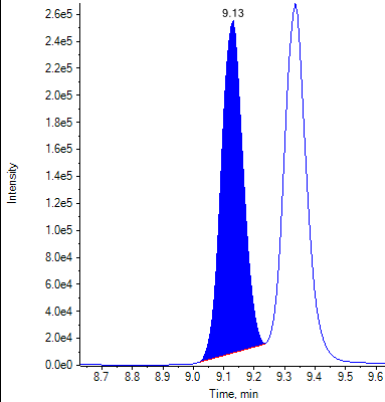
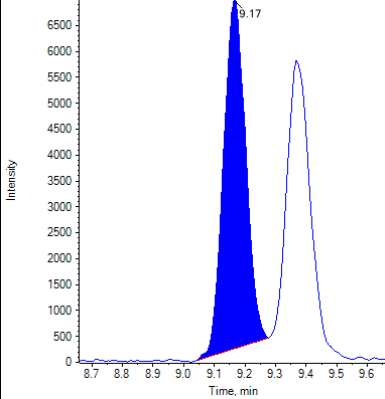
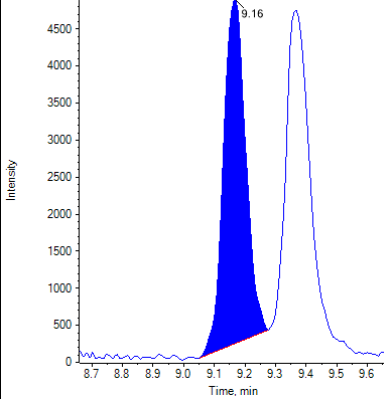
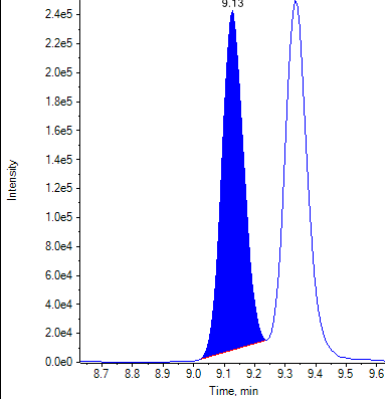
Peak Review			
Sample Name	Δ9-THC 1	Δ9-THC 2	Δ9-THC-D3

Peak Review			
Sample Name	$\Delta 9$ -THC 1	$\Delta 9$ -THC 2	$\Delta 9$ -THC-D3
Standard 1			
Standard 2			
Standard 3			
Standard 4			

Peak Review			
Sample Name	$\Delta 9$ -THC 1	$\Delta 9$ -THC 2	$\Delta 9$ -THC-D3
Standard 5			
Standard 6			
Low A			
Low B			

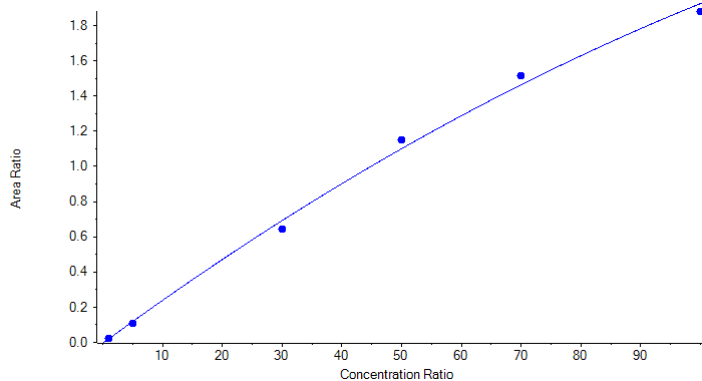
Peak Review			
Sample Name	$\Delta 9$ -THC 1	$\Delta 9$ -THC 2	$\Delta 9$ -THC-D3
Low C			
Medium A			
Medium B			
Medium C			

Peak Review			
Sample Name	Δ9-THC 1	Δ9-THC 2	Δ9-THC-D3
High A			
High B			
High C			
Negative			

Peak Review			
Sample Name	$\Delta 9$ -THC 1	$\Delta 9$ -THC 2	$\Delta 9$ -THC-D3
Standard 1 A			
Standard 1 B			
Standard 1 C			

Calibration Summary: Δ8-THC

$$y = -5.61202e-5 x^2 + 0.02491 x - 0.00480 \quad (r = 0.99894) \quad (\text{weighting: } 1/x)$$



Analyte Transition Mass

Internal Standard	Δ8-THC-D3
I.S. Transition Mass	318.1 / 123.0
Δ8-THC 1	315.1 / 193.1
Δ8-THC 2	315.1 / 123.1
Relative Retention time: Expected (Acceptance Range)	
Δ8-THC 1	1.004 (0.979-1.029)
Δ8-THC 2	1.004 (0.979-1.029)
Ion Ratio: Expected (Acceptance Range)	
Δ8-THC 2	0.780 (0.624-0.936)
Δ8-THC comment	

Quantitative Summary: Δ8-THC

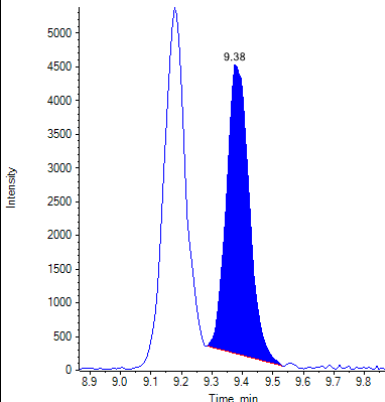
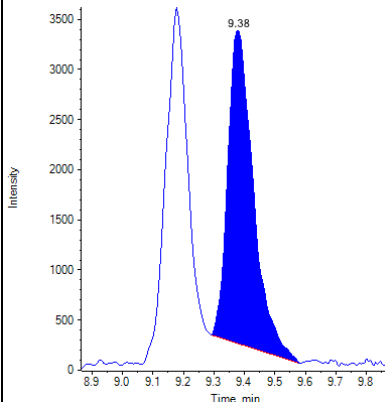
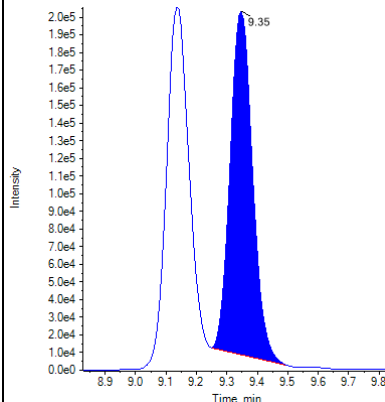
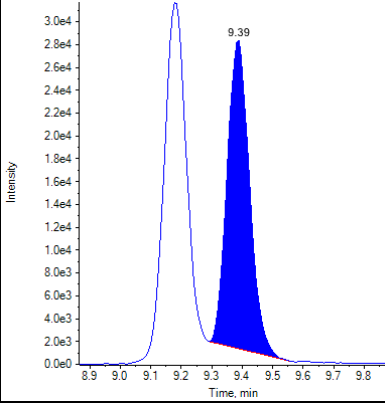
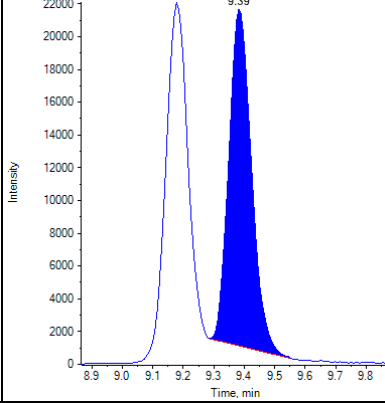
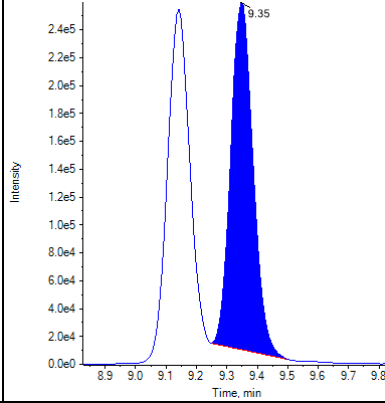
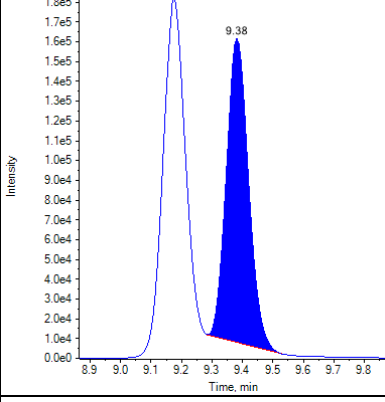
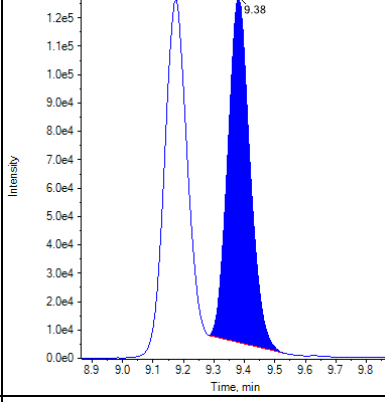
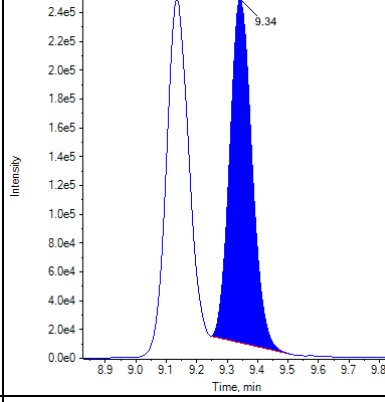
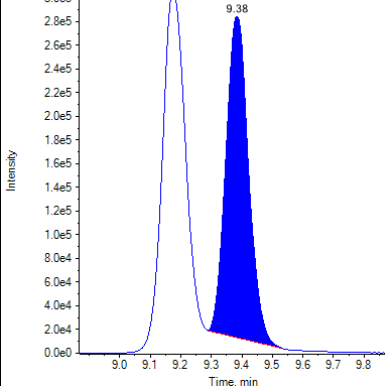
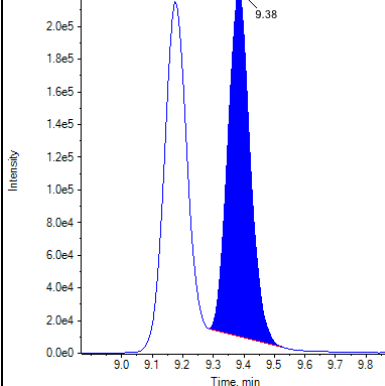
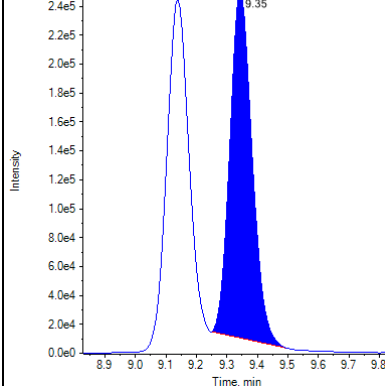
Sample Name	Area Ratio	Actual Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
Standard 1	0.0224	1.00	1.092	109.25
Standard 2	0.1084	5.00	4.593	91.85
Standard 3	0.6446	30.00	27.806	92.69
Standard 4	1.1522	50.00	52.697	105.39
Standard 5	1.5129	70.00	72.884	104.12
Standard 6	1.8802	100.00	96.742	96.74
Low A	0.0654	3.00	2.835	94.49
Low B	0.0646	3.00	2.802	93.41
Low C	0.0663	3.00	2.872	95.74
Medium A	0.9342	40.00	41.585	103.96
Medium B	0.8937	40.00	39.598	99.00
Medium C	0.9119	40.00	40.485	101.21
High A	1.7992	80.00	91.107	113.88
High B	1.8348	80.00	93.556	116.94
High C	1.8386	80.00	93.815	117.27
Negative	N/A	0.00	N/A	N/A
Standard 1 A	0.0220	1.00	1.078	107.83
Standard 1 B	0.0219	1.00	1.073	107.31
Standard 1 C	0.0226	1.00	1.102	110.24

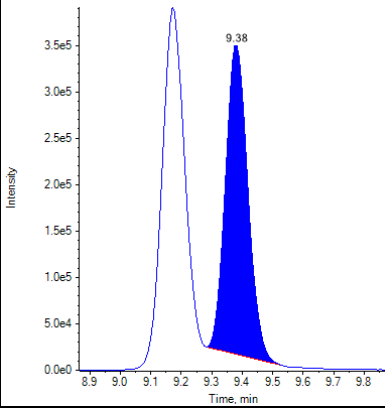
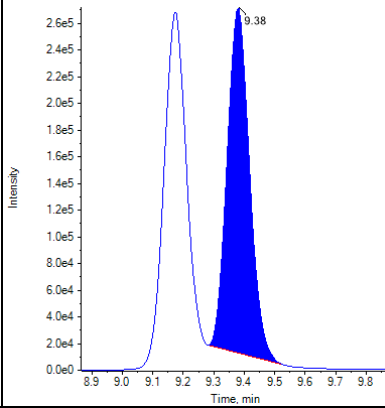
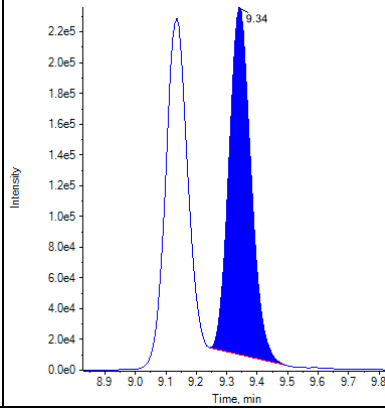
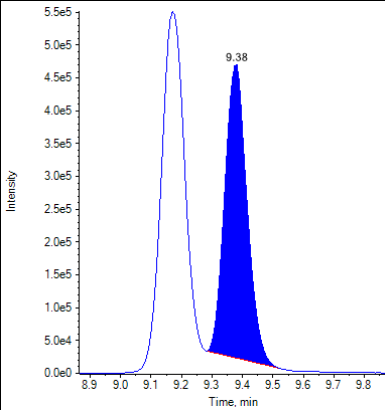
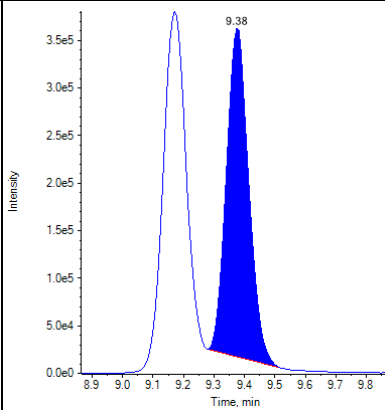
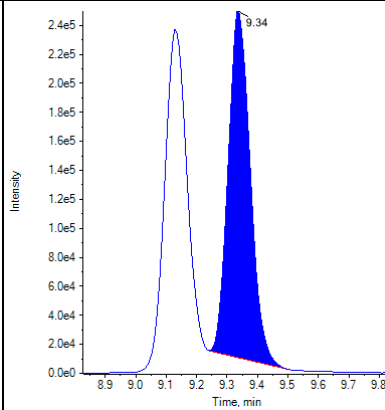
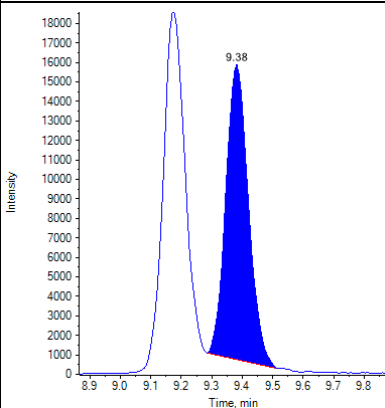
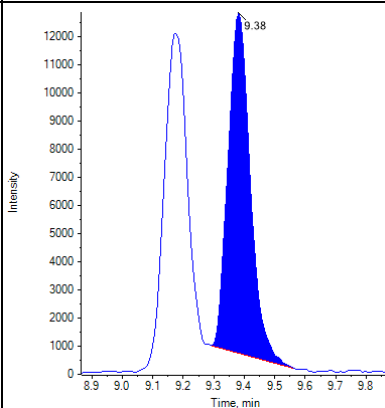
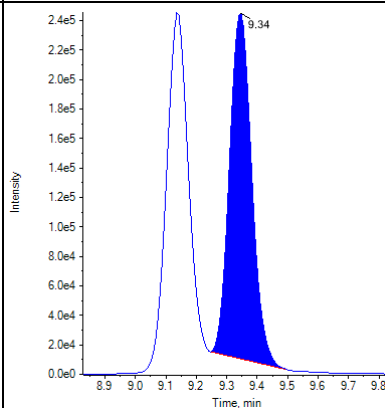
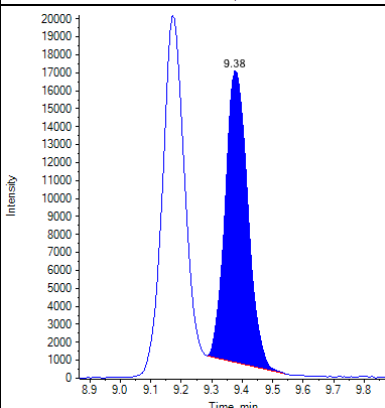
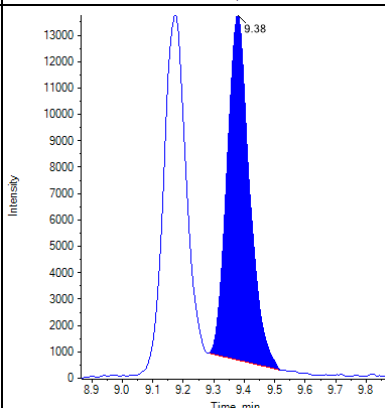
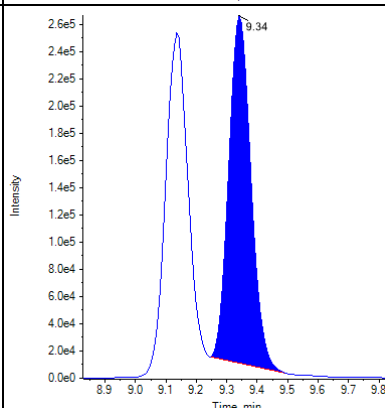
Identification Summary: Δ8-THC

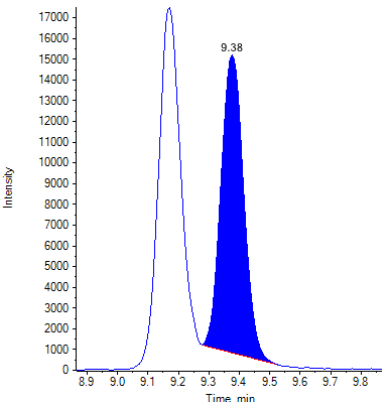
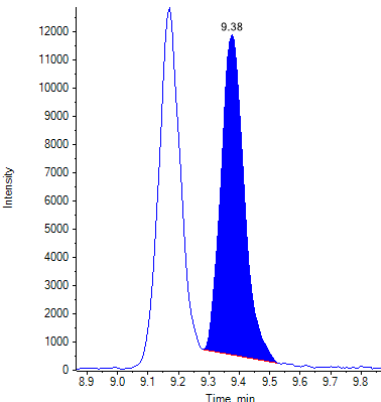
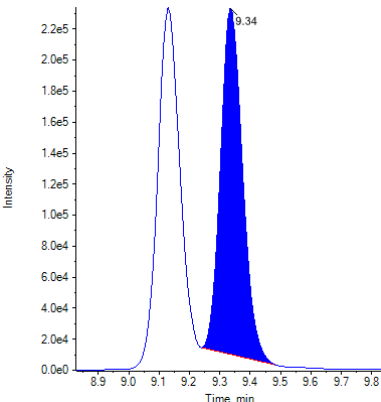
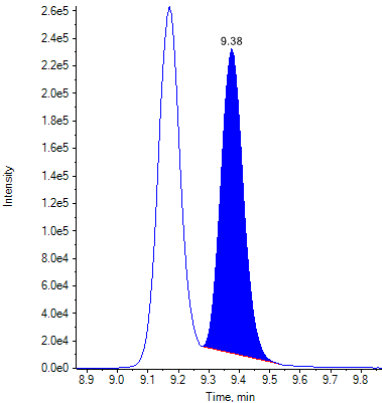
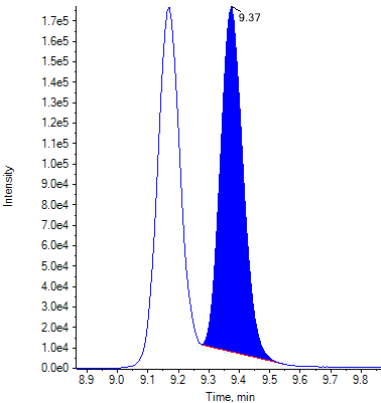
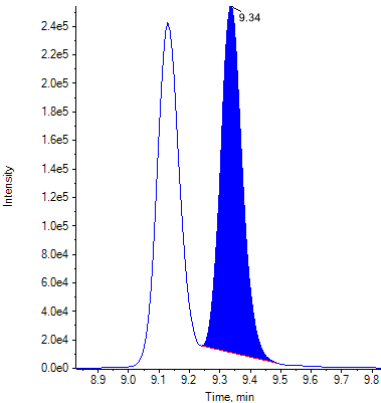
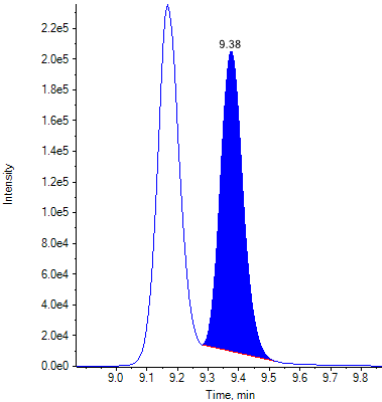
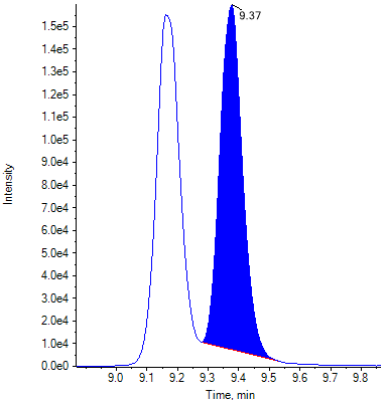
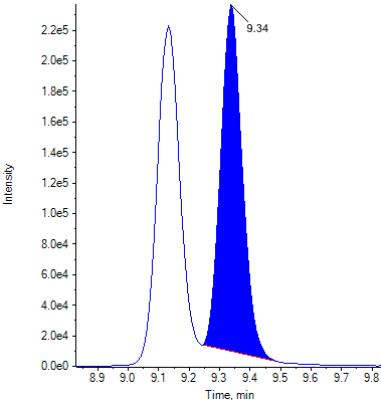
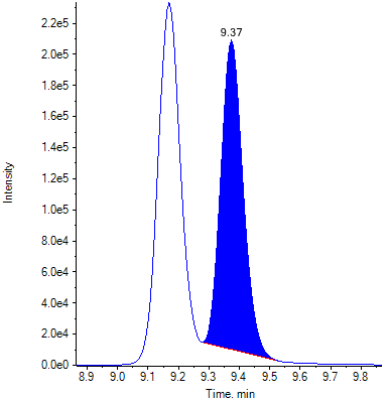
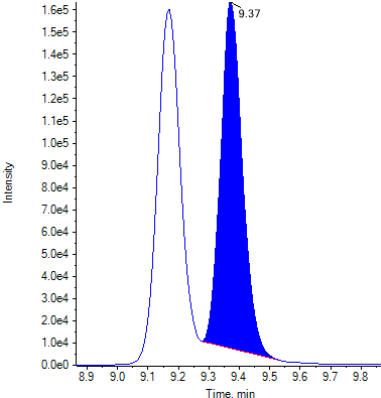
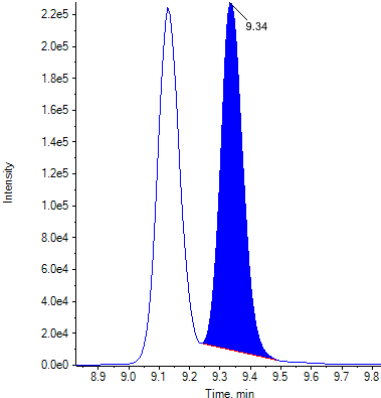
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 1	Δ8-THC 1	1.004 (Pass)	0.817 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Standard 2	Δ8-THC 1	1.004 (Pass)	0.771 (Pass)
	Δ8-THC 2	1.004 (Pass)	

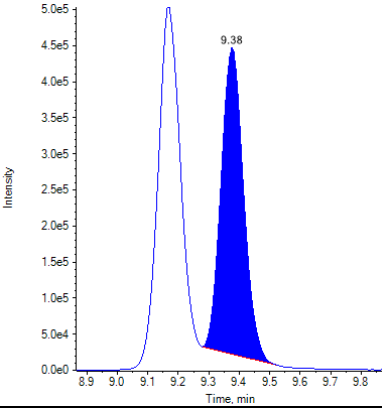
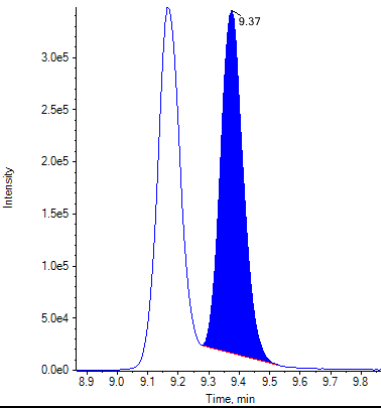
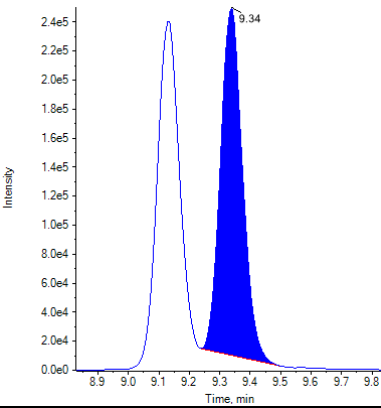
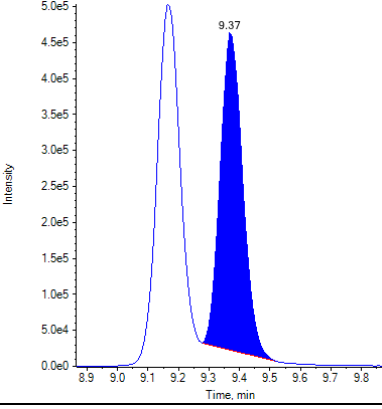
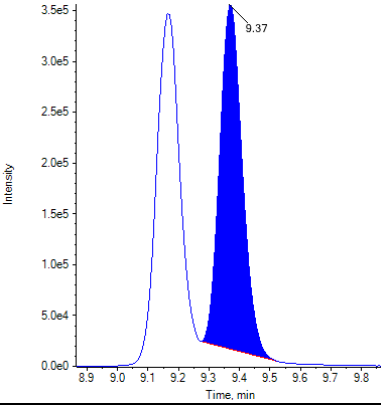
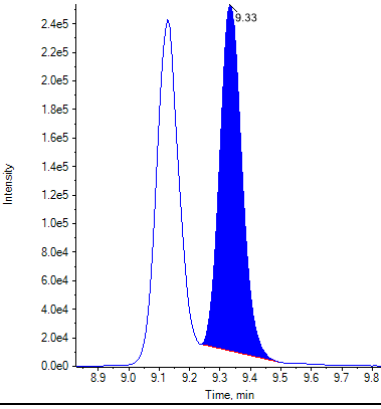
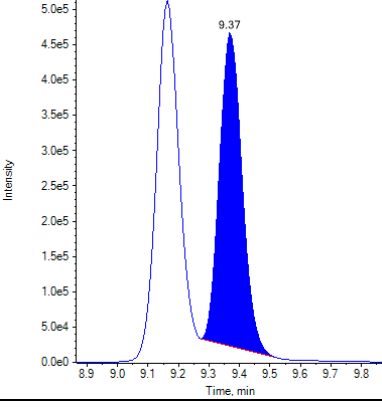
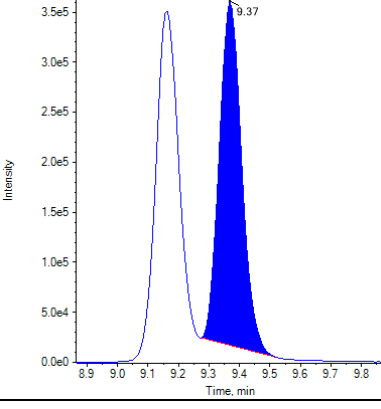
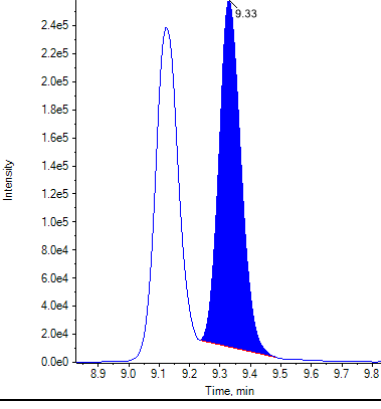
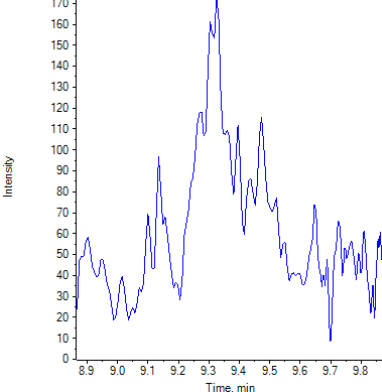
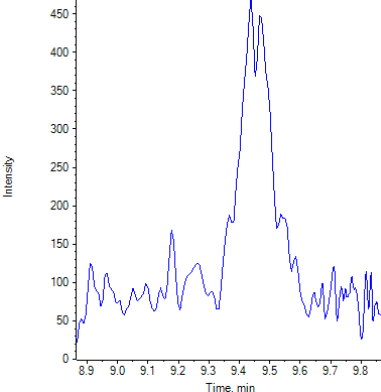
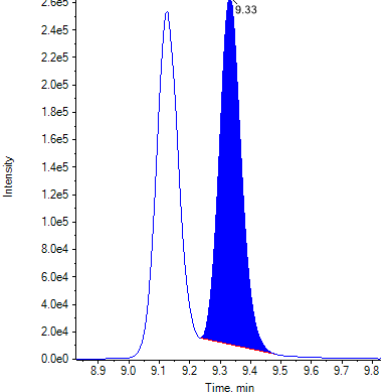
Identification Summary: Δ8-THC			
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 3	Δ8-THC 1	1.004 (Pass)	0.784 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Standard 4	Δ8-THC 1	1.004 (Pass)	0.760 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Standard 5	Δ8-THC 1	1.004 (Pass)	0.772 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Standard 6	Δ8-THC 1	1.004 (Pass)	0.774 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Low A	Δ8-THC 1	1.004 (Pass)	0.785 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Low B	Δ8-THC 1	1.004 (Pass)	0.801 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Low C	Δ8-THC 1	1.004 (Pass)	0.802 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Medium A	Δ8-THC 1	1.004 (Pass)	0.766 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Medium B	Δ8-THC 1	1.004 (Pass)	0.783 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Medium C	Δ8-THC 1	1.004 (Pass)	0.770 (Pass)
	Δ8-THC 2	1.004 (Pass)	
High A	Δ8-THC 1	1.004 (Pass)	0.777 (Pass)
	Δ8-THC 2	1.004 (Pass)	
High B	Δ8-THC 1	1.004 (Pass)	0.775 (Pass)
	Δ8-THC 2	1.004 (Pass)	
High C	Δ8-THC 1	1.004 (Pass)	0.769 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Negative	Δ8-THC 1	N/A ()	N/A ()
	Δ8-THC 2	N/A ()	
Standard 1 A	Δ8-THC 1	1.004 (Pass)	0.858 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Standard 1 B	Δ8-THC 1	1.004 (Pass)	0.828 (Pass)
	Δ8-THC 2	1.004 (Pass)	
Standard 1 C	Δ8-THC 1	1.004 (Pass)	0.722 (Pass)
	Δ8-THC 2	1.004 (Pass)	

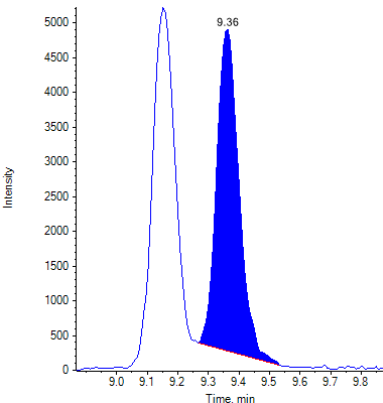
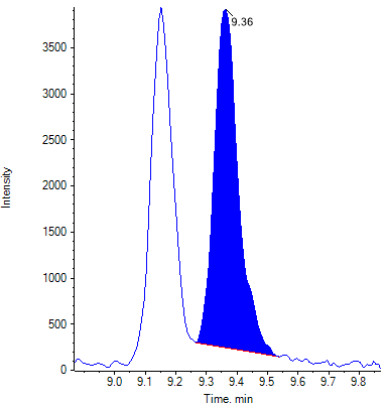
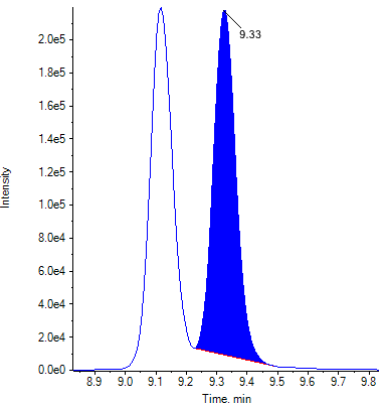
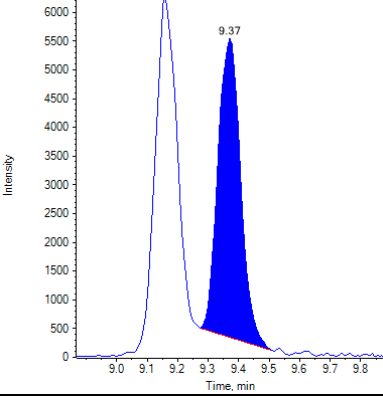
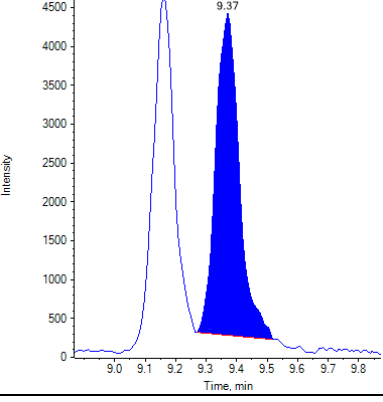
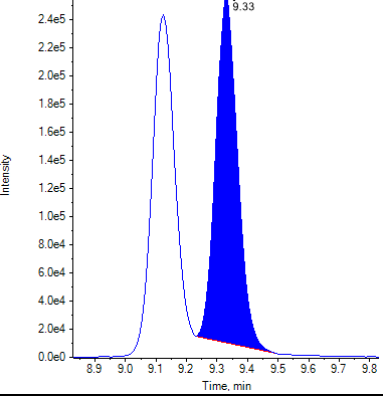
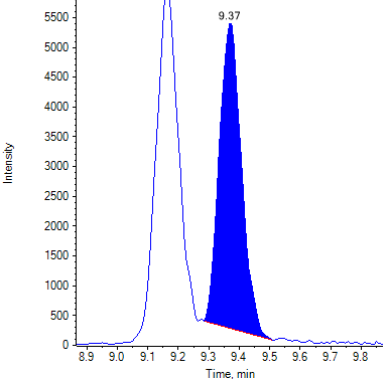
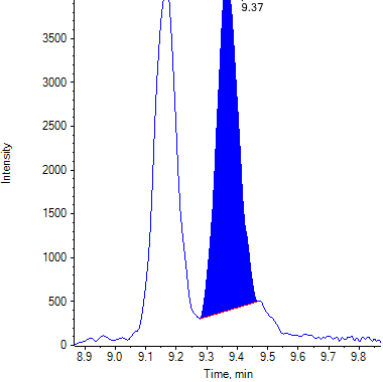
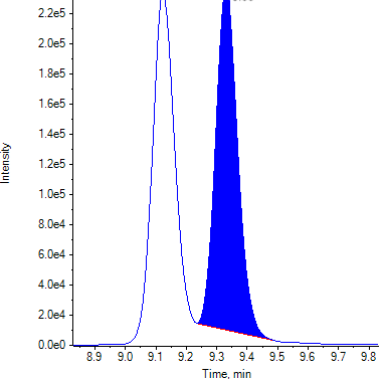
Peak Review			
Sample Name	Δ8-THC 1	Δ8-THC 2	Δ8-THC-D3

Peak Review			
Sample Name	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2	$\Delta 8$ -THC-D3
Standard 1			
Standard 2			
Standard 3			
Standard 4			

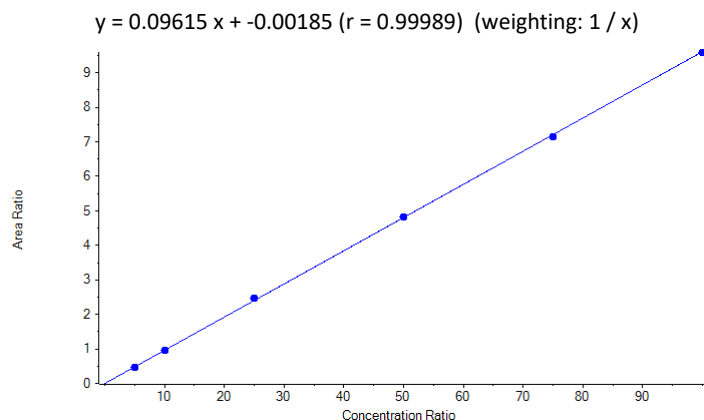
Peak Review			
Sample Name	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2	$\Delta 8$ -THC-D3
Standard 5			
Standard 6			
Low A			
Low B			

Peak Review			
Sample Name	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2	$\Delta 8$ -THC-D3
Low C			
Medium A			
Medium B			
Medium C			

Peak Review			
Sample Name	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2	$\Delta 8$ -THC-D3
High A			
High B			
High C			
Negative			

Peak Review			
Sample Name	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2	$\Delta 8$ -THC-D3
Standard 1 A			
Standard 1 B			
Standard 1 C			

Calibration Summary: THC-COOH



Analyte Transition Mass	
Internal Standard	THC-COOH-D3
I.S. Transition Mass	346.0 / 194.0
THC-COOH 1	343.0 / 299.1
THC-COOH 2	343.0 / 191.0
Relative Retention time: Expected (Acceptance Range)	
THC-COOH 1	1.007 (0.982-1.032)
THC-COOH 2	1.007 (0.982-1.032)
Ion Ratio: Expected (Acceptance Range)	
THC-COOH 2	0.184 (0.147-0.221)
THC-COOH comment	

Quantitative Summary: THC-COOH

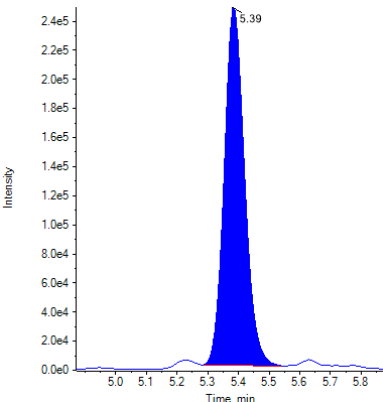
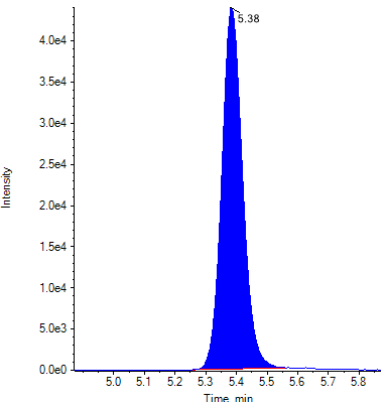
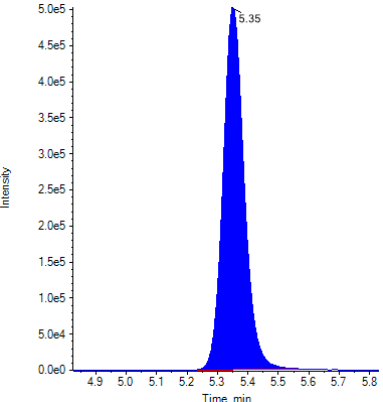
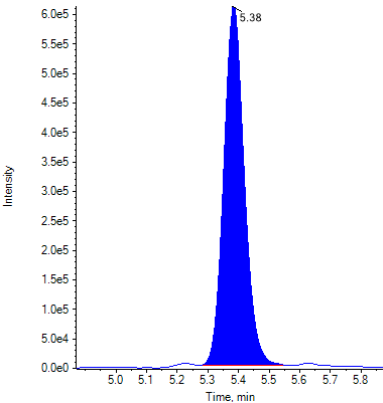
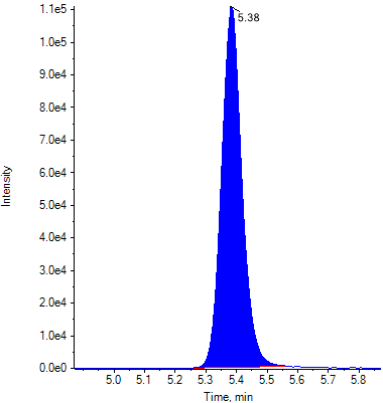
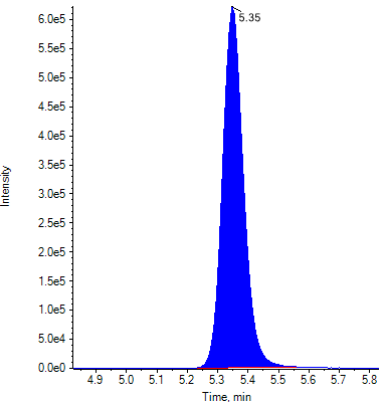
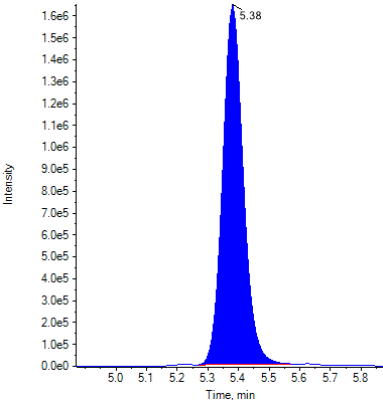
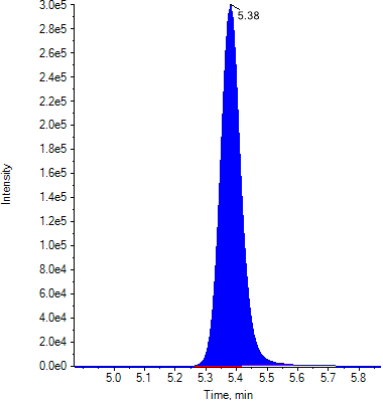
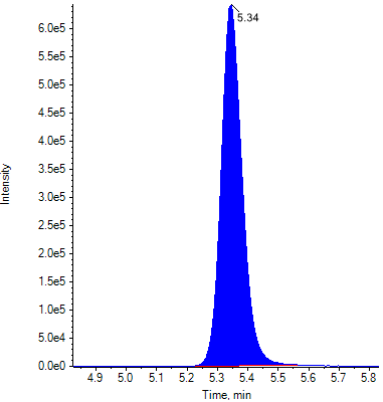
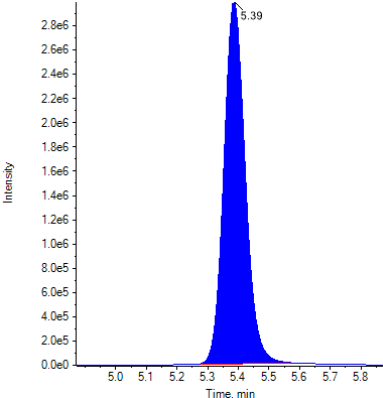
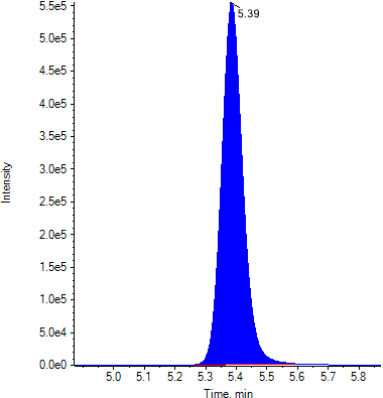
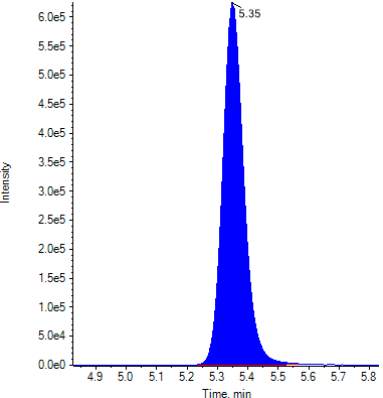
Sample Name	Area Ratio	Actual Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
Standard 1	0.4683	5.00	4.889	97.79
Standard 2	0.9557	10.00	9.958	99.58
Standard 3	2.4838	25.00	25.851	103.40
Standard 4	4.8151	50.00	50.096	100.19
Standard 5	7.1590	75.00	74.473	99.30
Standard 6	9.5877	100.00	99.732	99.73
Low A	0.7575	8.00	7.898	98.72
Low B	0.7816	8.00	8.148	101.85
Low C	0.7658	8.00	7.984	99.79
Medium A	4.2790	40.00	44.521	111.30
Medium B	4.1533	40.00	43.214	108.04
Medium C	4.0954	40.00	42.611	106.53
High A	7.4311	80.00	77.303	96.63
High B	7.3665	80.00	76.631	95.79
High C	7.4351	80.00	77.345	96.68
Negative	N/A	0.00	N/A	N/A
Standard 1 A	0.4741	5.00	4.950	99.00
Standard 1 B	0.4847	5.00	5.061	101.21
Standard 1 C	0.4985	5.00	5.203	104.07

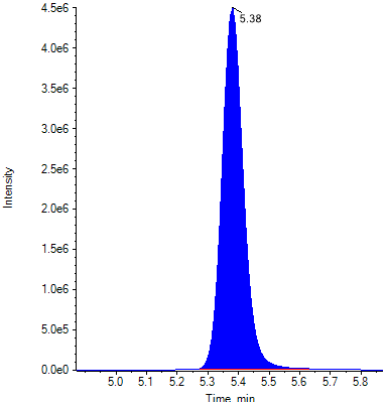
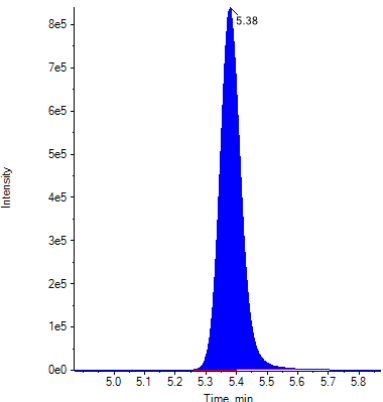
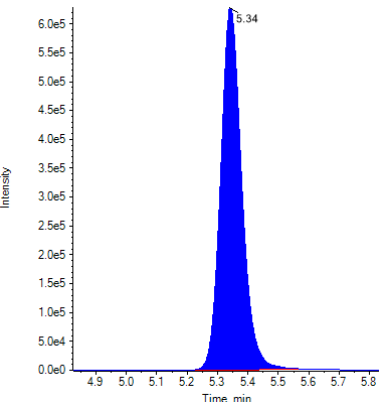
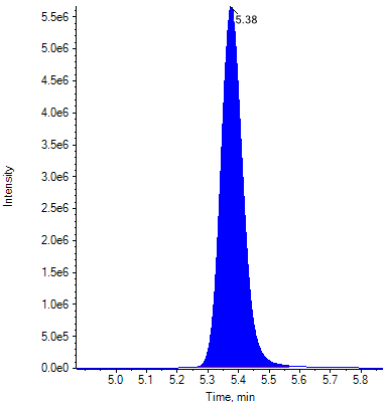
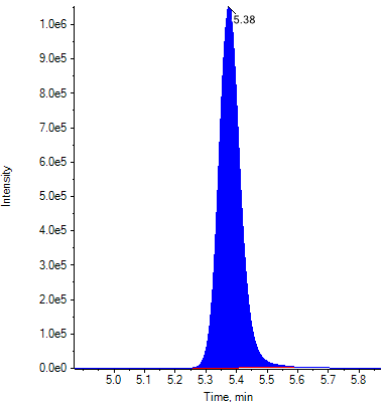
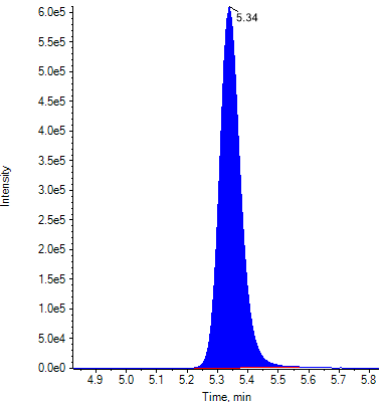
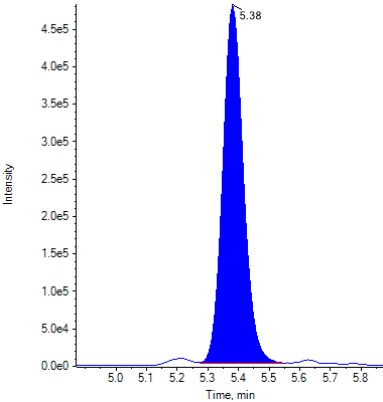
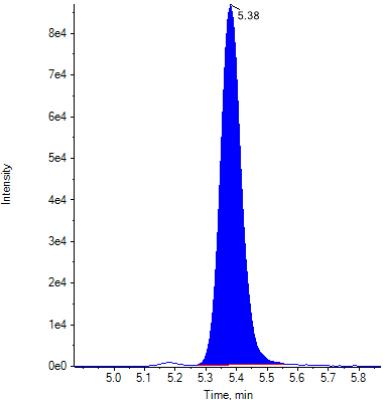
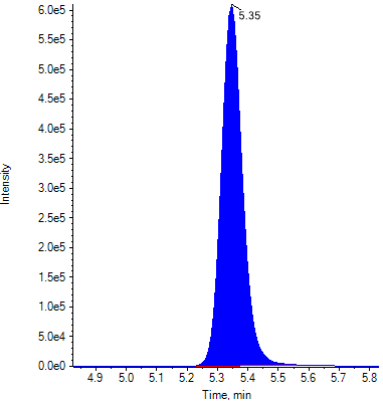
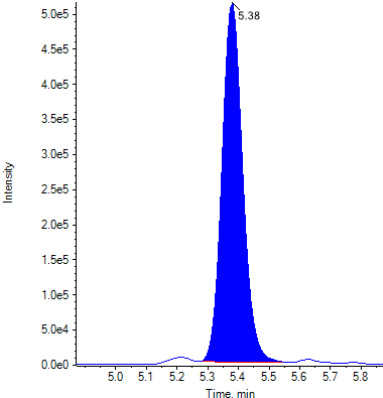
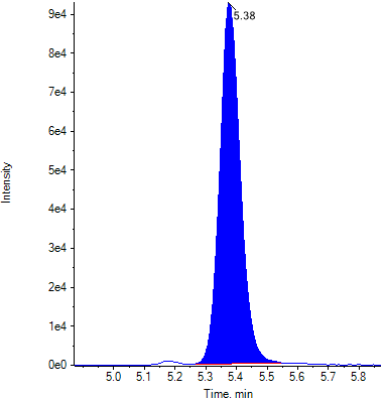
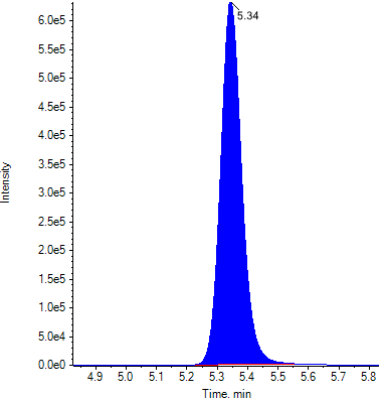
Identification Summary: THC-COOH

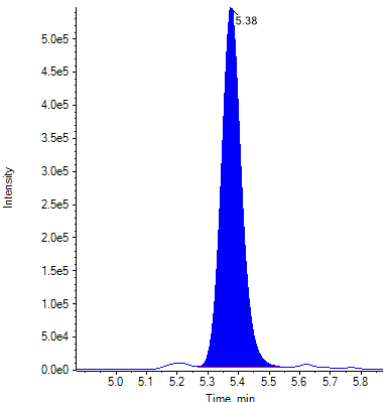
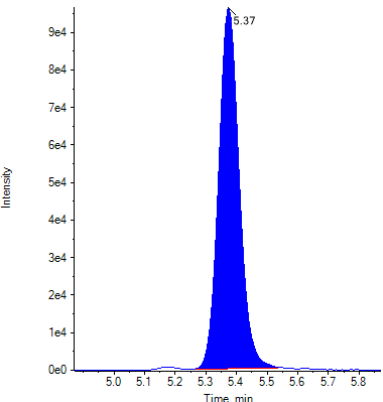
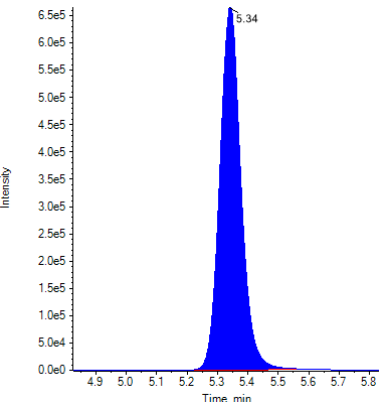
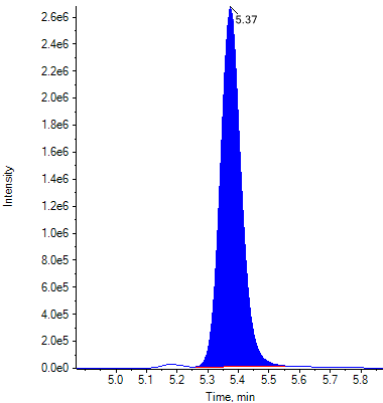
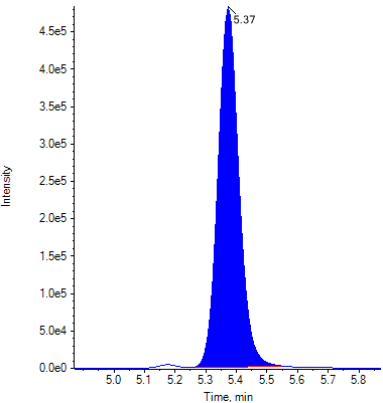
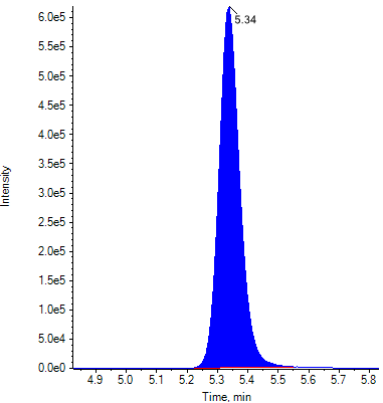
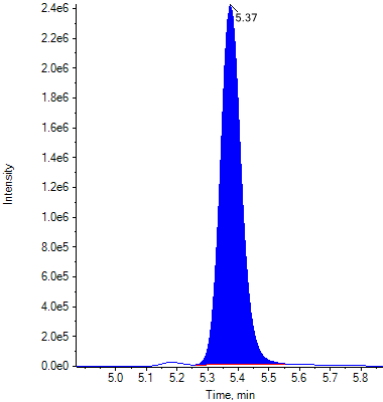
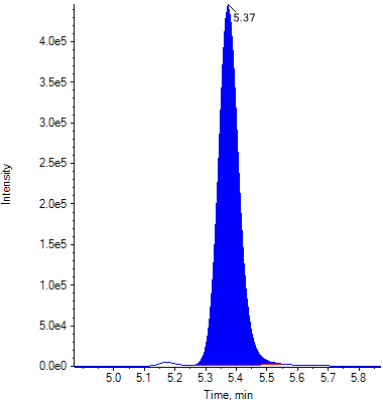
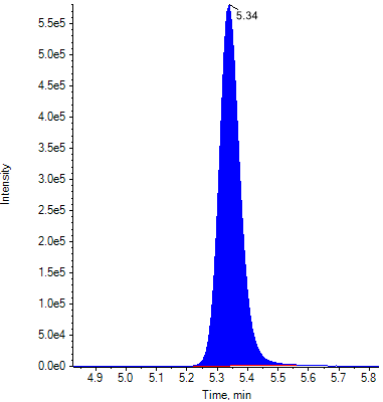
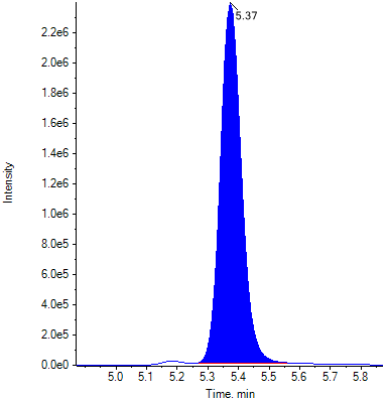
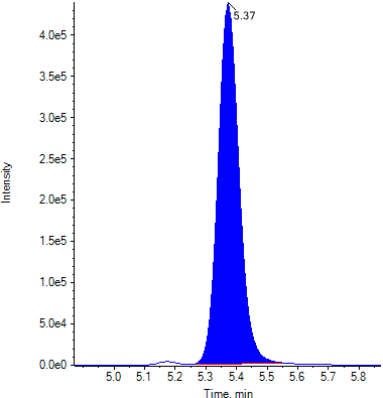
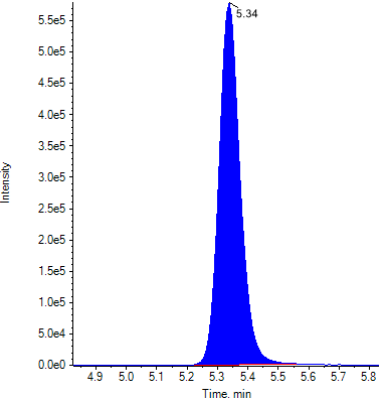
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 1	THC-COOH 1	1.006 (Pass)	0.182 (Pass)
	THC-COOH 2	1.006 (Pass)	
Standard 2	THC-COOH 1	1.007 (Pass)	0.181 (Pass)

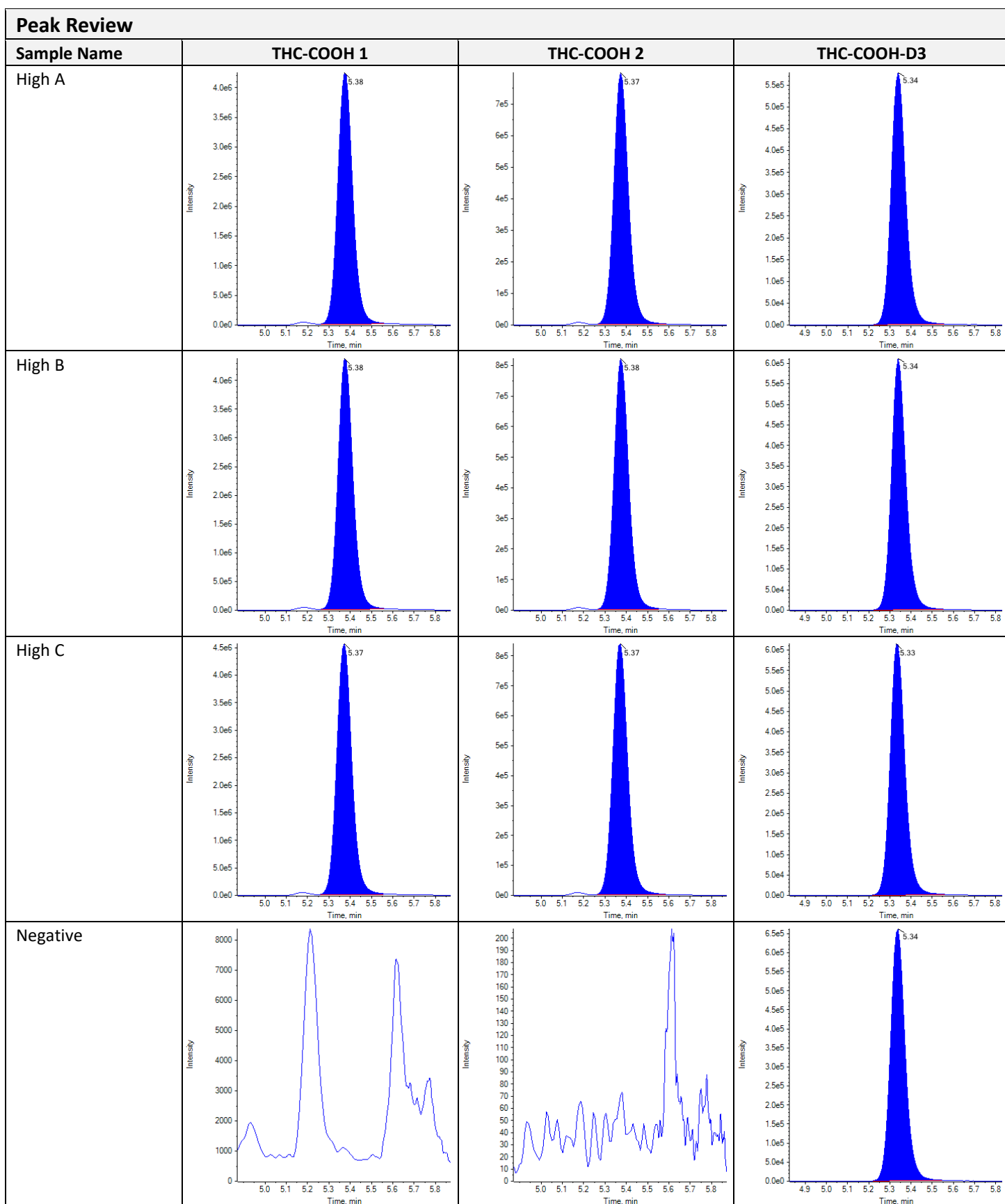
Identification Summary: THC-COOH			
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
	THC-COOH 2	1.006 (Pass)	
Standard 3	THC-COOH 1	1.007 (Pass)	0.185 (Pass)
	THC-COOH 2	1.007 (Pass)	
Standard 4	THC-COOH 1	1.007 (Pass)	0.184 (Pass)
	THC-COOH 2	1.006 (Pass)	
Standard 5	THC-COOH 1	1.007 (Pass)	0.185 (Pass)
	THC-COOH 2	1.007 (Pass)	
Standard 6	THC-COOH 1	1.007 (Pass)	0.185 (Pass)
	THC-COOH 2	1.007 (Pass)	
Low A	THC-COOH 1	1.007 (Pass)	0.184 (Pass)
	THC-COOH 2	1.006 (Pass)	
Low B	THC-COOH 1	1.006 (Pass)	0.181 (Pass)
	THC-COOH 2	1.006 (Pass)	
Low C	THC-COOH 1	1.006 (Pass)	0.182 (Pass)
	THC-COOH 2	1.006 (Pass)	
Medium A	THC-COOH 1	1.007 (Pass)	0.182 (Pass)
	THC-COOH 2	1.007 (Pass)	
Medium B	THC-COOH 1	1.007 (Pass)	0.182 (Pass)
	THC-COOH 2	1.007 (Pass)	
Medium C	THC-COOH 1	1.007 (Pass)	0.182 (Pass)
	THC-COOH 2	1.007 (Pass)	
High A	THC-COOH 1	1.007 (Pass)	0.185 (Pass)
	THC-COOH 2	1.007 (Pass)	
High B	THC-COOH 1	1.007 (Pass)	0.184 (Pass)
	THC-COOH 2	1.007 (Pass)	
High C	THC-COOH 1	1.007 (Pass)	0.184 (Pass)
	THC-COOH 2	1.007 (Pass)	
Negative	THC-COOH 1	N/A ()	N/A ()
	THC-COOH 2	N/A ()	
Standard 1 A	THC-COOH 1	1.007 (Pass)	0.187 (Pass)
	THC-COOH 2	1.006 (Pass)	
Standard 1 B	THC-COOH 1	1.007 (Pass)	0.187 (Pass)
	THC-COOH 2	1.006 (Pass)	
Standard 1 C	THC-COOH 1	1.007 (Pass)	0.185 (Pass)
	THC-COOH 2	1.006 (Pass)	

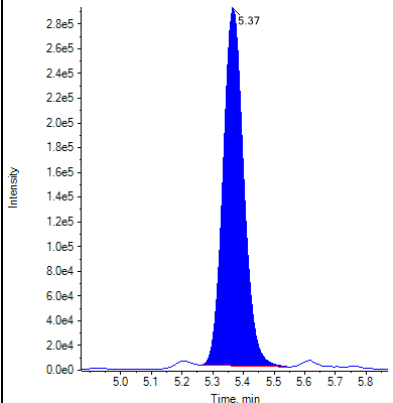
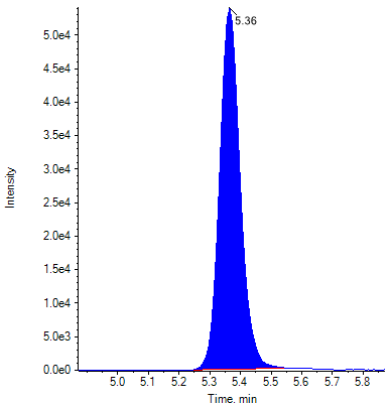
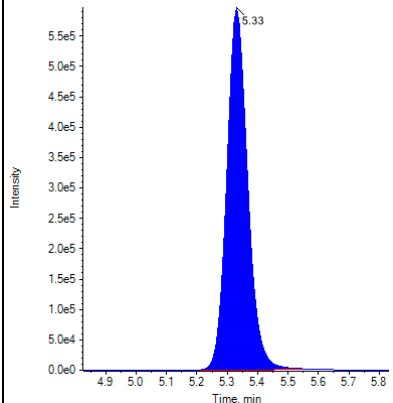
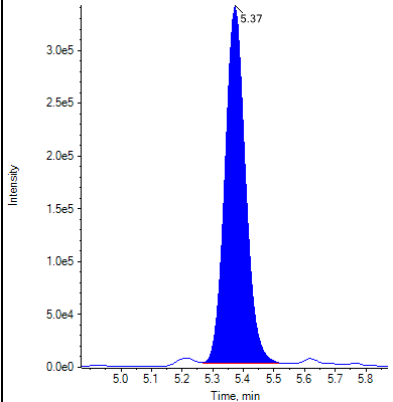
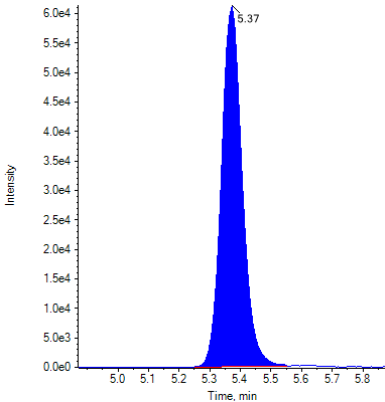
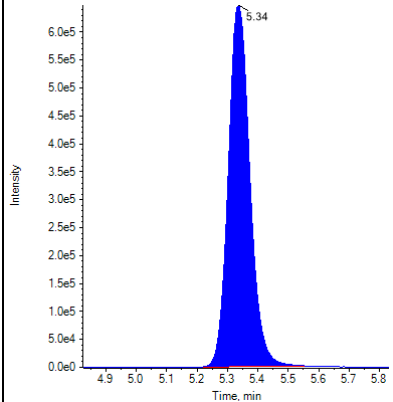
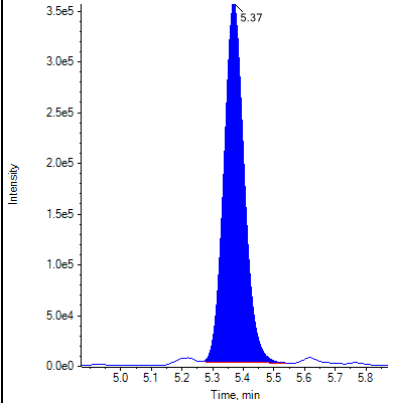
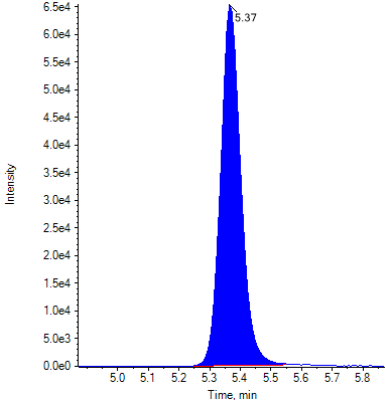
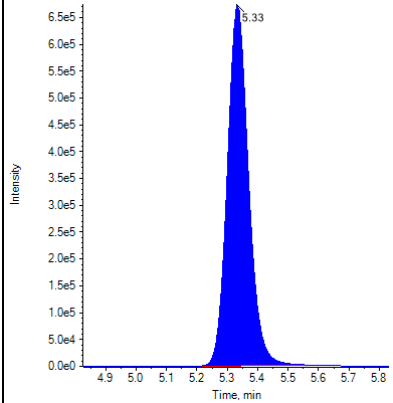
Peak Review			
Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3

Peak Review			
Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3
Standard 1			
Standard 2			
Standard 3			
Standard 4			

Peak Review			
Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3
Standard 5			
Standard 6			
Low A			
Low B			

Peak Review			
Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3
Low C			
Medium A			
Medium B			
Medium C			



Peak Review			
Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3
Standard 1 A			
Standard 1 B			
Standard 1 C			

CARRYOVER

Cannabinoid Lot Log	
Date	9-20-22
Analyst	SR
Checked tubes	
Sample preparation	
Sample Pipette	007
Blank Blood	FL3
Standards	9-14-22 JLG
Controls	9-14-22 JLG
Standards/Controls Pipette	064
Internal Standard	9-14-22 SB
Internal Standard Pipette	103
0.1 % formic acid in H ₂ O	9-16-22 DMC
Extraction	
SLE Cartridge	22061206CA
MTBE	L322A-3
B: 0.1% formic acid in ACN	8-29-22 SB
A: 0.1 % formic acid in H ₂ O	9-14-22 DMC
Instrumentation	
A: 0.1 % formic acid in H ₂ O	9-1-22 HK
B: 0.1% formic acid in ACN	9-17-22 SB
Column Serial Number	USCGC17438
Instrument	21-1
Sequence Check:	
Notes: 10x Std 6 Δ ⁸ THC: FE 02172272-2 Δ ⁹ THC: FE 09162102-2 THC-OH: FE 09182008-2 THC-COOH: FN 09252110-2 MeOH: 22D2062006-3 Flask: 3701	



Sample Summary

Sample Name	10x Standard 6 A
Acquisition Date/Time	9/20/2022 9:21:28 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK Carryover
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	52
Sample Comment	

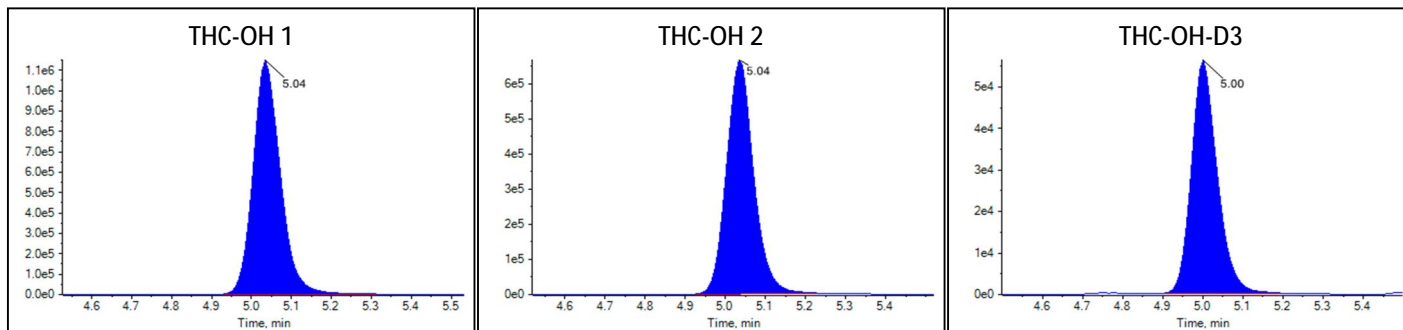
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.161e1	<2 points		
Δ 9-THC	2.324e1	<3 points		
Δ 8-THC	1.798e1	<3 points		
THC-COOH	5.010e1	<2 points		

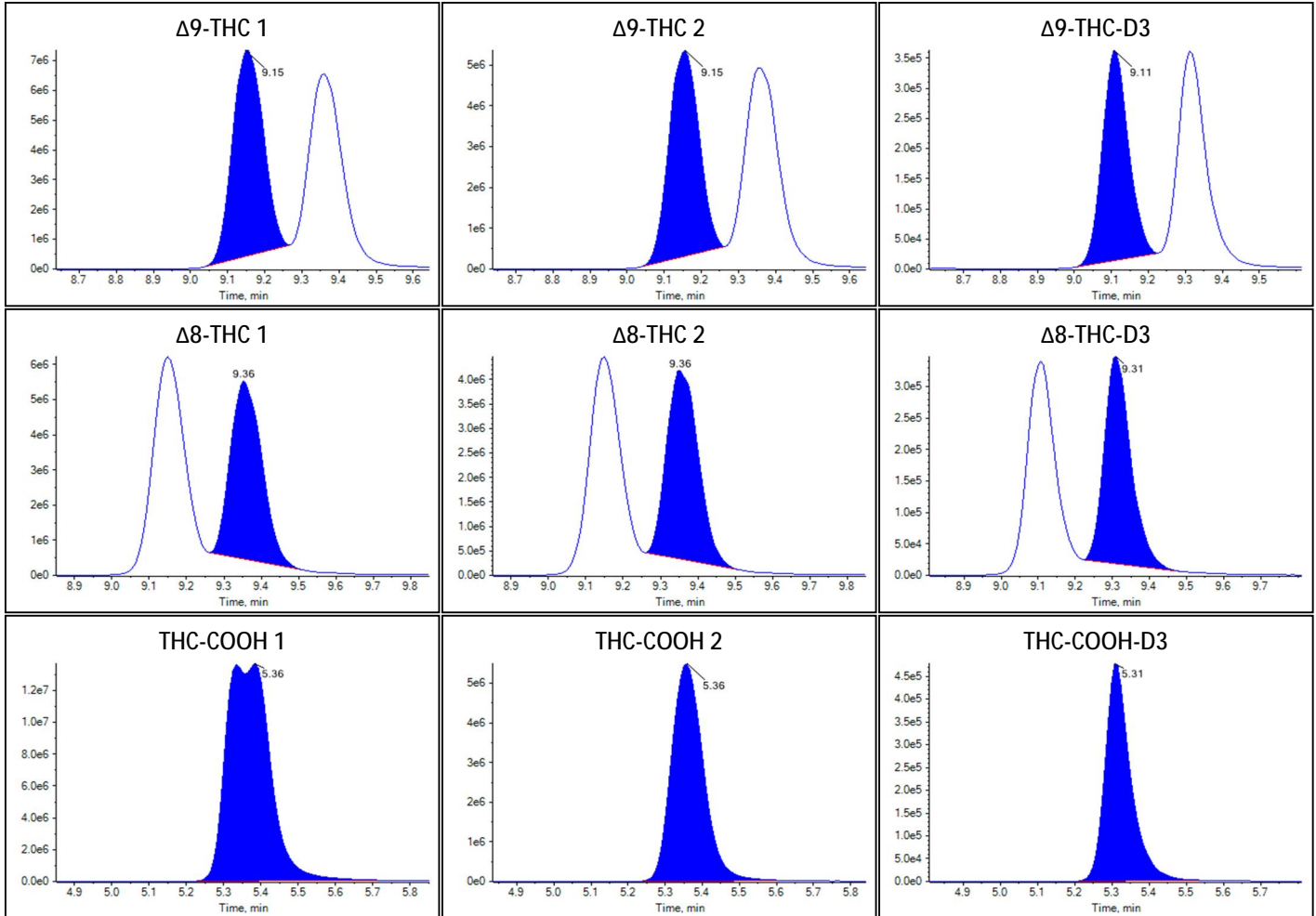
Identification Summary: 10x Standard 6 A

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.576(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.713(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.010(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.770(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.288(Not calculated)

Peak Review: 10x Standard 6 A



Peak Review: 10x Standard 6 A



Sample Summary

Sample Name	Negative 1
Acquisition Date/Time	9/20/2022 9:35:33 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK Carryover
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	53
Sample Comment	

Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ9-THC	N/A	N/A		
Δ8-THC	N/A	N/A		

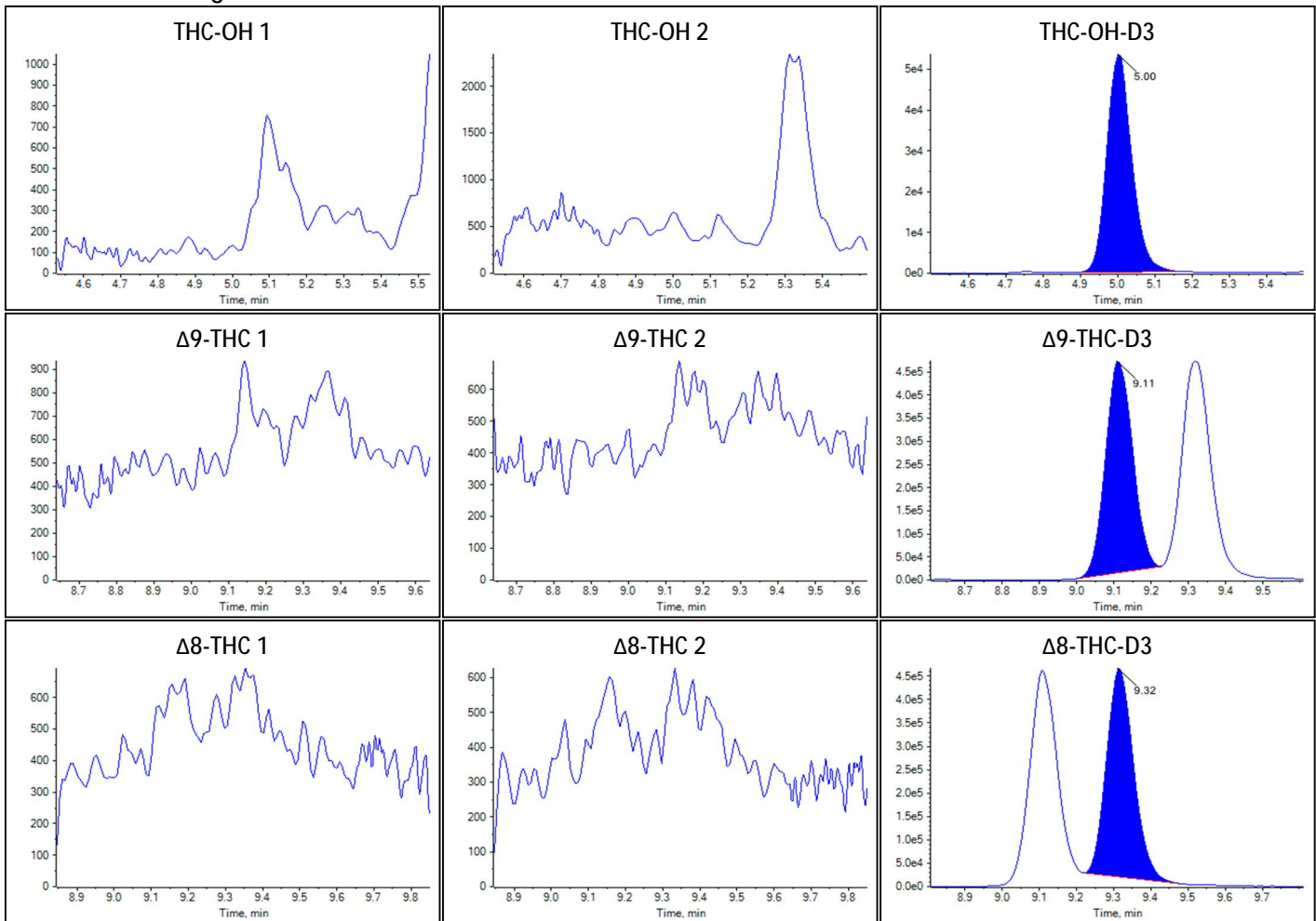
Quantitative Analytes Report

THC-COOH	N/A	N/A	
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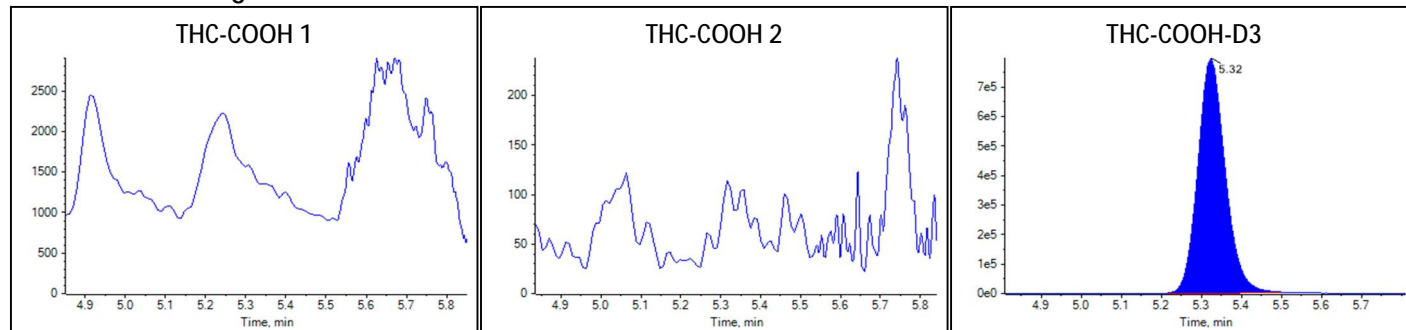
Identification Summary: Negative 1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	N/A(Not calculated)
Δ 9-THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	N/A(Not calculated)	N/A(Not calculated)
Δ 8-THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	N/A(Not calculated)	N/A(Not calculated)
THC-COOH 1	343.0 / 299.1	N/A(Not calculated)	
THC-COOH 2	343.0 / 191.0	N/A(Not calculated)	N/A(Not calculated)

Peak Review: Negative 1



Peak Review: Negative 1



Sample Summary

Sample Name	10x Standard 6 B
Acquisition Date/Time	9/20/2022 9:49:38 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK Carryover
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	54
Sample Comment	

Quantitative Summary

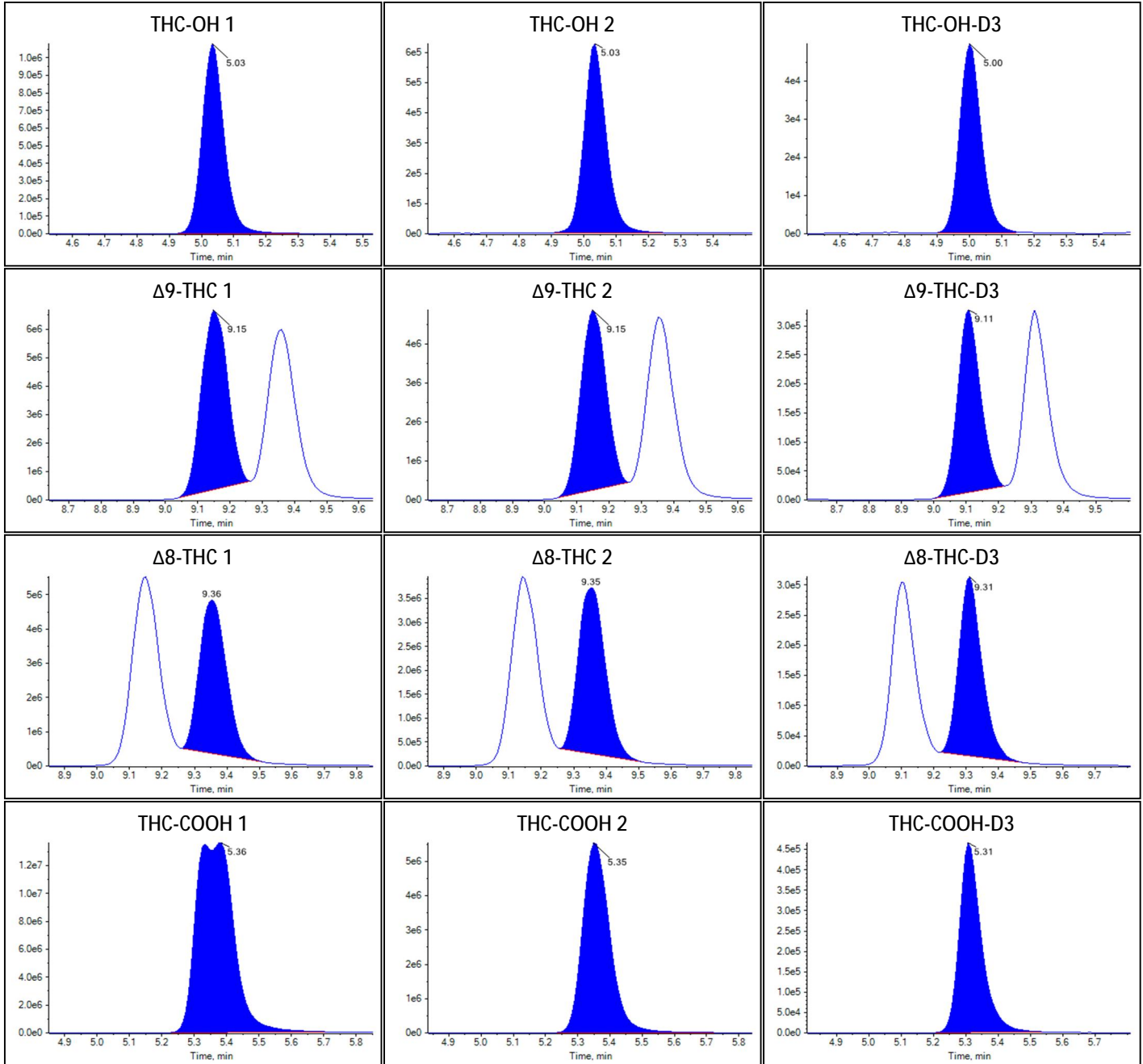
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.222e1	<2 points		
Δ 9-THC	2.326e1	<3 points		
Δ 8-THC	1.762e1	<3 points		
THC-COOH	5.066e1	<2 points		

Identification Summary: 10x Standard 6 B

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.582(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.714(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.776(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.290(Not calculated)

Peak Review: 10x Standard 6 B

Peak Review: 10x Standard 6 B



Sample Summary

Quantitative Analytes Report

Sample Name	Negative 2
Acquisition Date/Time	9/20/2022 10:03:40 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK Carryover
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	55
Sample Comment	

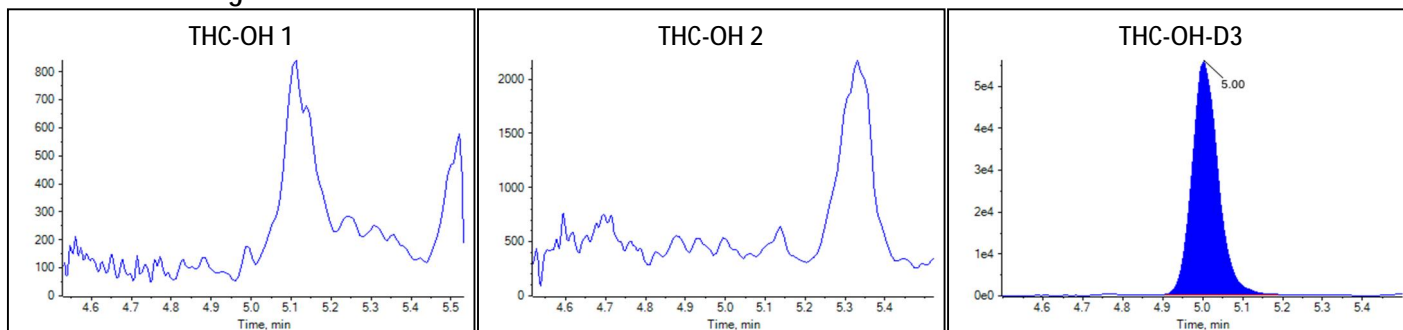
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	N/A	N/A		

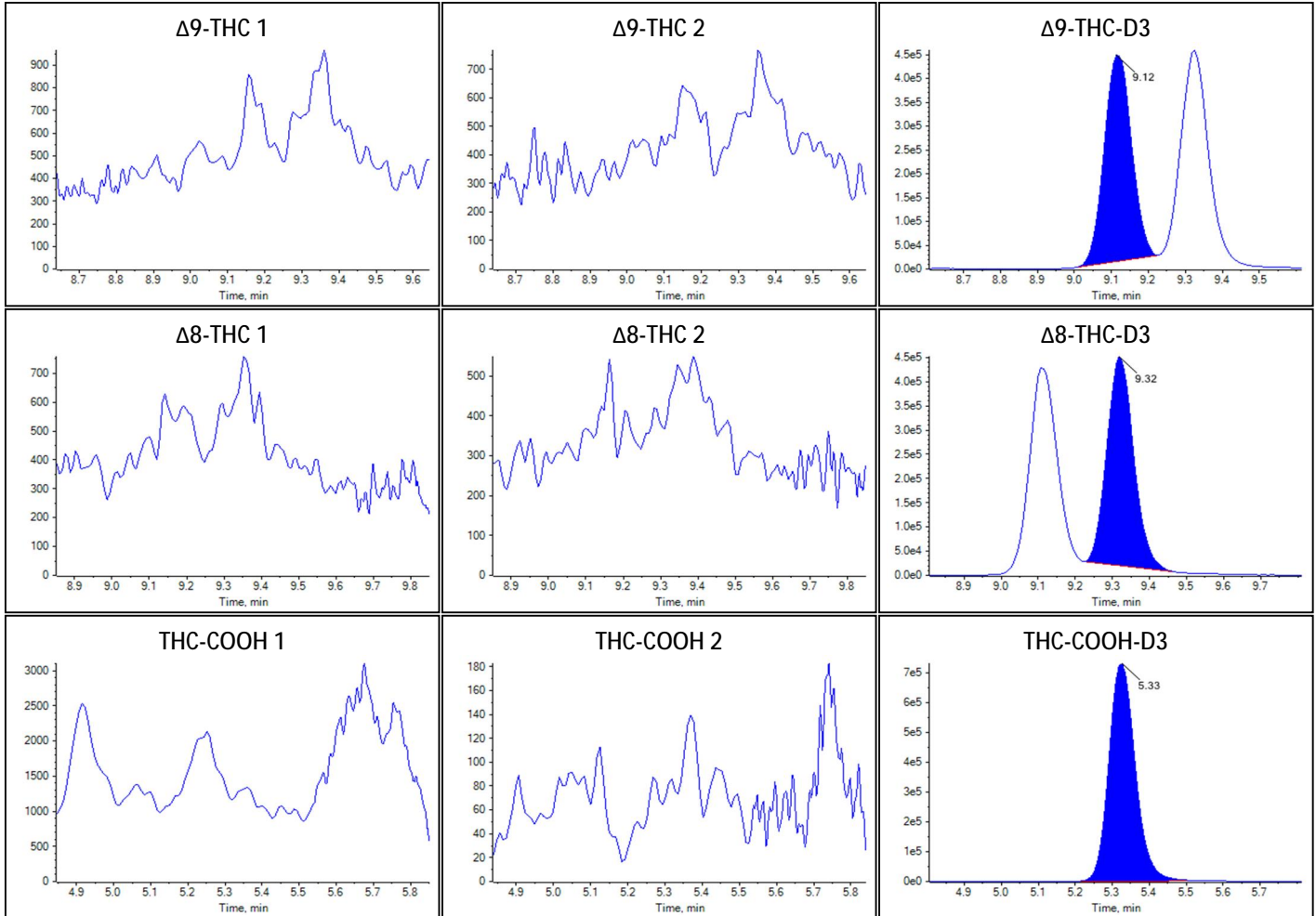
Identification Summary: Negative 2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	N/A(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	N/A(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	N/A(Not calculated)
THC-COOH 1	343.0 / 299.1	N/A(Not calculated)	
THC-COOH 2	343.0 / 191.0	N/A(Not calculated)	N/A(Not calculated)

Peak Review: Negative 2



Peak Review: Negative 2



Sample Summary

Sample Name	10x Standard 6 C
Acquisition Date/Time	9/20/2022 10:17:46 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK Carryover
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	56
Sample Comment	

Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.066e1	<2 points		
$\Delta 9$ -THC	2.353e1	<3 points		
$\Delta 8$ -THC	1.807e1	<3 points		

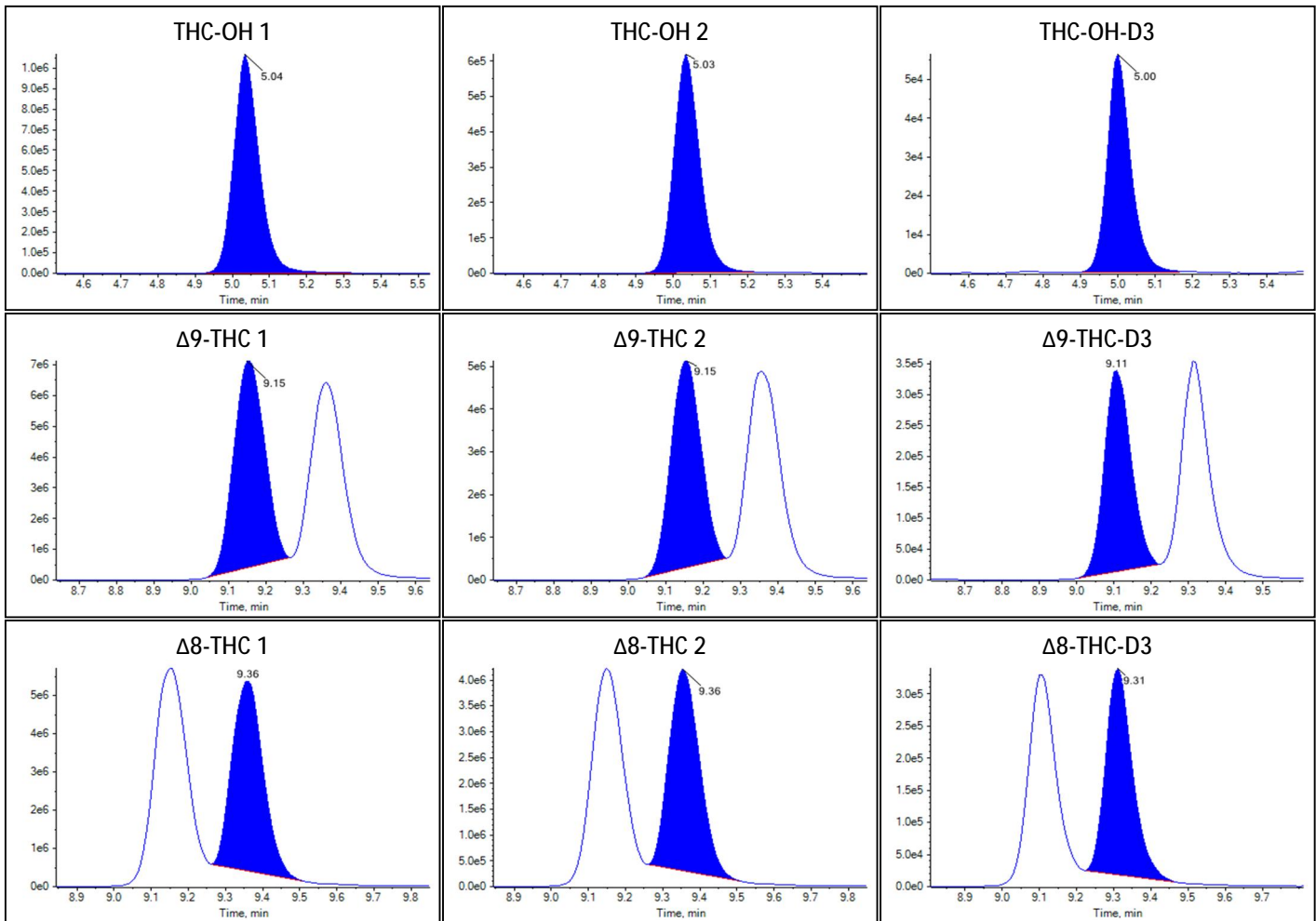
Quantitative Analytes Report

THC-COOH	4.899e1	<2 points	
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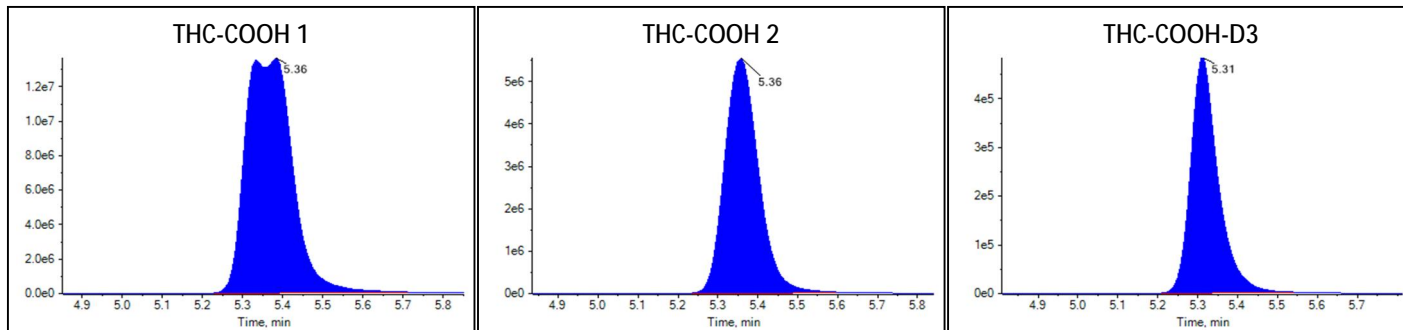
Identification Summary: 10x Standard 6 C

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.583(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.010(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.706(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.772(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.289(Not calculated)

Peak Review: 10x Standard 6 C



Peak Review: 10x Standard 6 C



Sample Summary

Sample Name	Negative 3
Acquisition Date/Time	9/20/2022 10:31:51 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK Carryover
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	57
Sample Comment	

Quantitative Summary

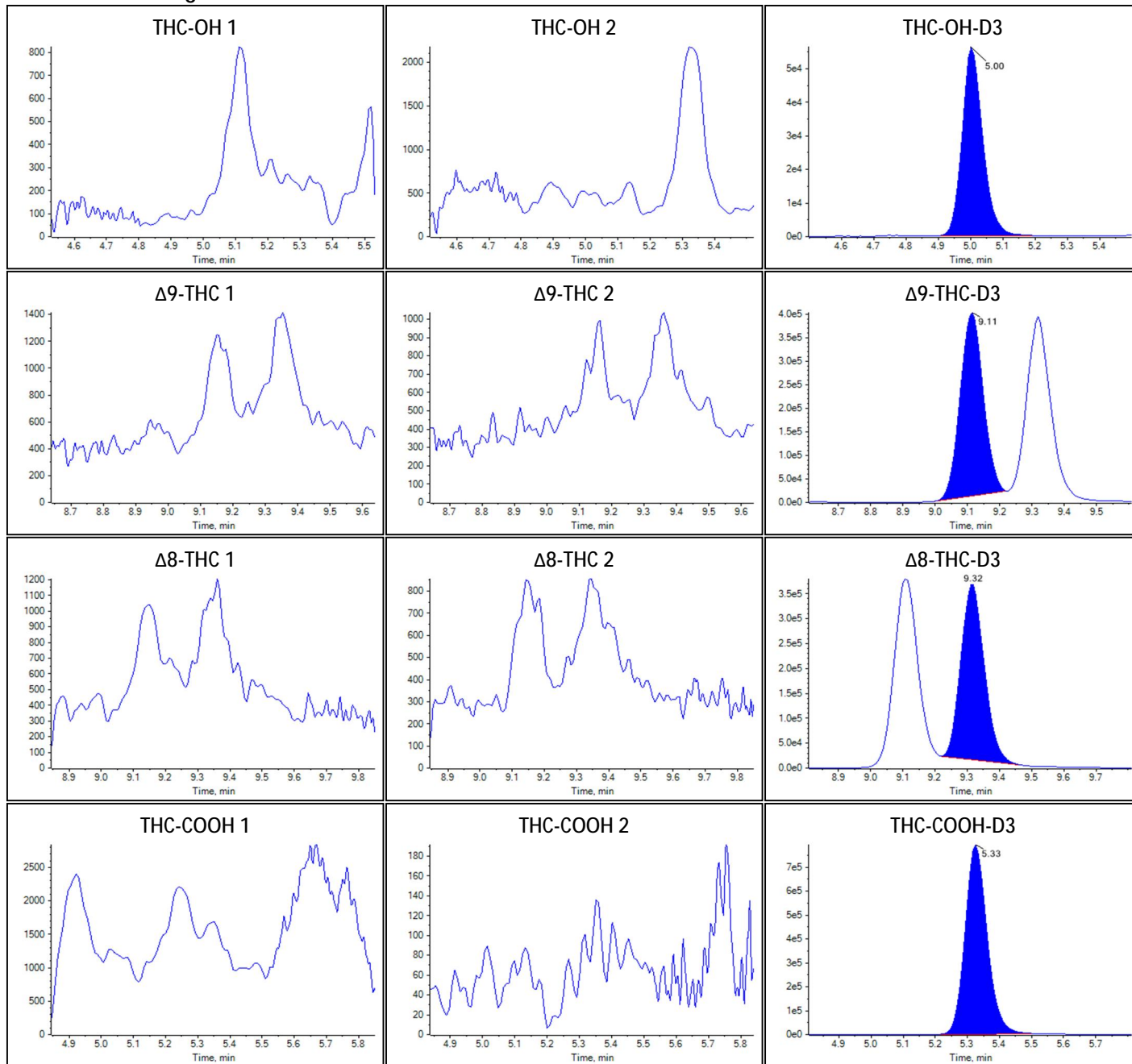
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ9-THC	N/A	N/A		
Δ8-THC	N/A	N/A		
THC-COOH	N/A	N/A		

Identification Summary: Negative 3

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	N/A(Not calculated)
Δ9-THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ9-THC 2	315.1 / 123.0	N/A(Not calculated)	N/A(Not calculated)
Δ8-THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ8-THC 2	315.1 / 123.1	N/A(Not calculated)	N/A(Not calculated)
THC-COOH 1	343.0 / 299.1	N/A(Not calculated)	
THC-COOH 2	343.0 / 191.0	N/A(Not calculated)	N/A(Not calculated)

Peak Review: Negative 3

Peak Review: Negative 3



Sample Summary

Quantitative Analytes Report

Sample Name	10x Standard 6 D
Acquisition Date/Time	9/20/2022 10:45:57 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK Carryover
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	58
Sample Comment	

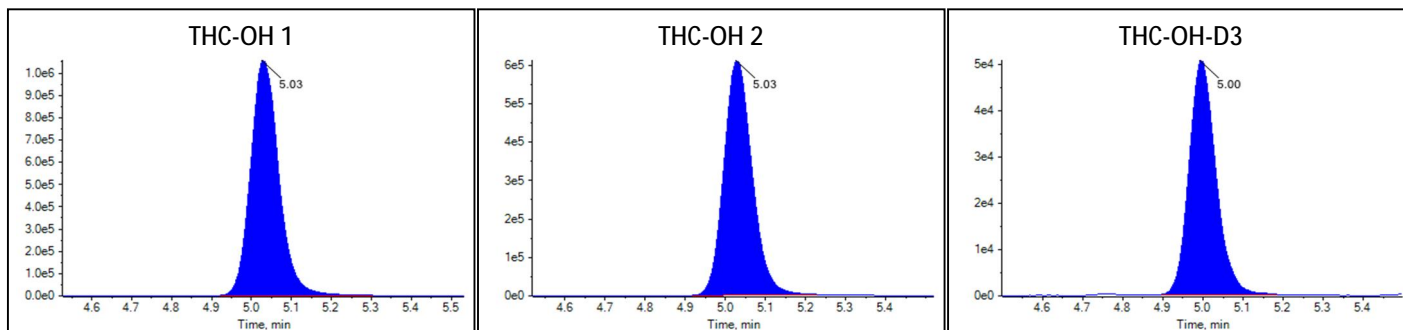
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.182e1	<2 points		
Δ9-THC	2.293e1	<3 points		
Δ8-THC	1.807e1	<3 points		
THC-COOH	5.028e1	<2 points		

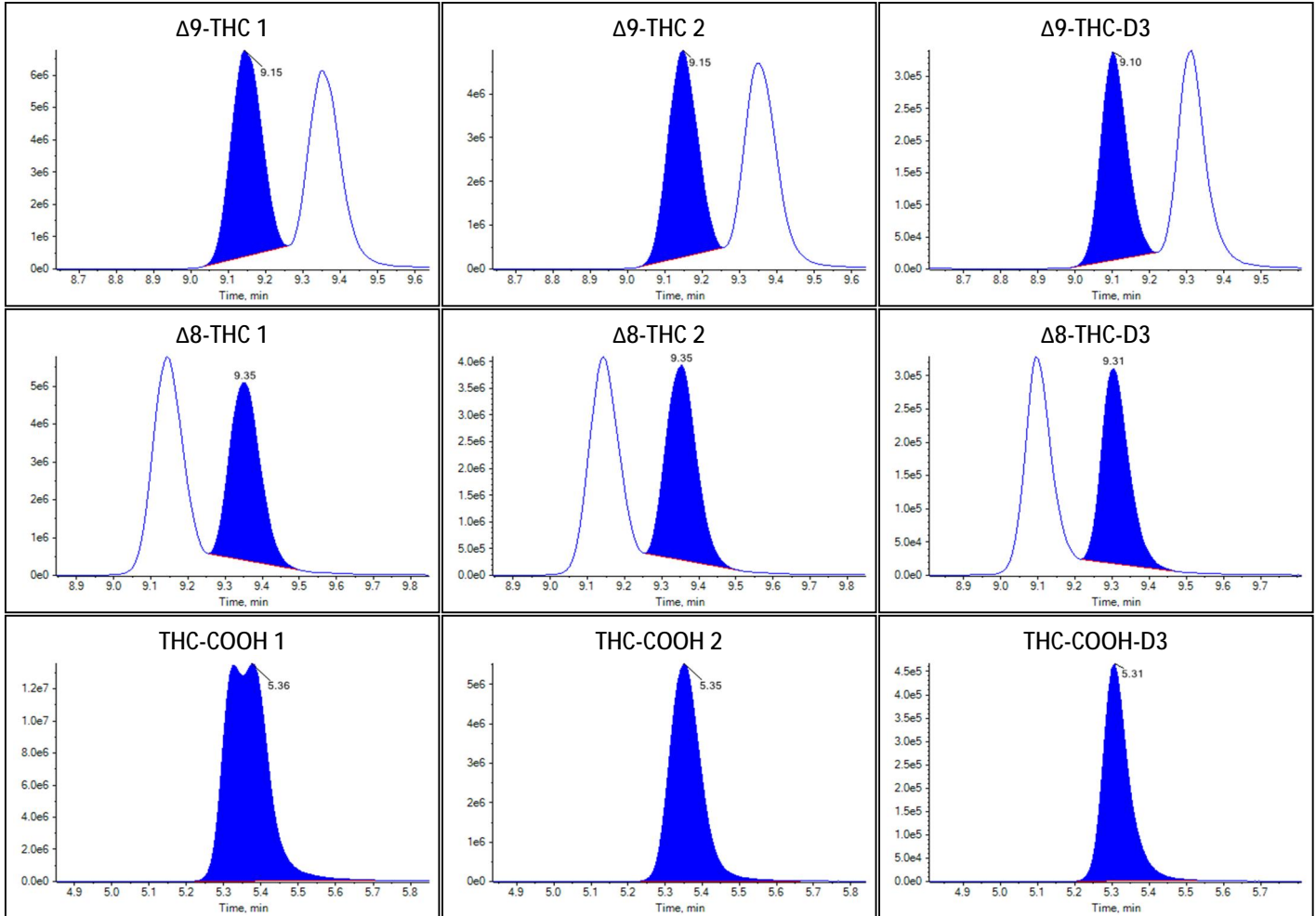
Identification Summary: 10x Standard 6 D

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.577(Not calculated)
Δ9-THC 1	315.1 / 193.1	1.010(Not calculated)	
Δ9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.712(Not calculated)
Δ8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.770(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.291(Not calculated)

Peak Review: 10x Standard 6 D



Peak Review: 10x Standard 6 D



Sample Summary

Sample Name	10x Standard 6 D
Acquisition Date/Time	9/20/2022 11:00:02 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK Carryover
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	58
Sample Comment	

Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.164e1	<2 points		
Δ9-THC	2.314e1	<3 points		
Δ8-THC	1.765e1	<3 points		

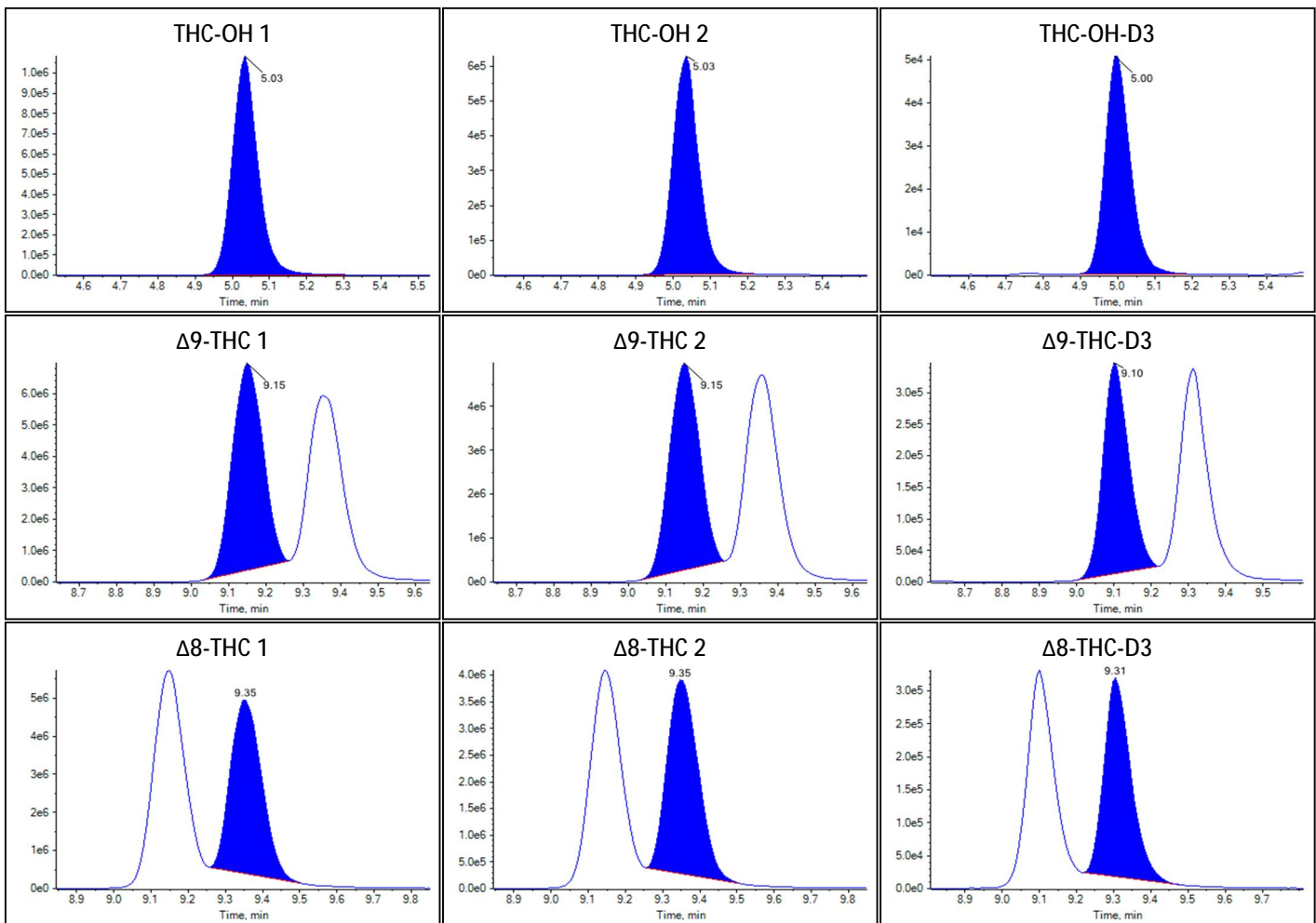
Quantitative Analytes Report

THC-COOH	5.015e1	<2 points	
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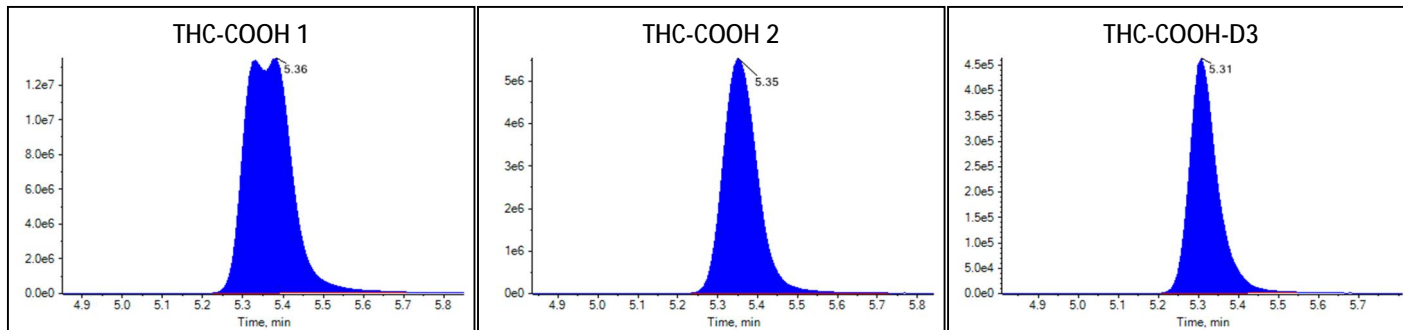
Identification Summary: 10x Standard 6 D

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.586(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.010(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.010(Not calculated)	0.702(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.793(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.292(Not calculated)

Peak Review: 10x Standard 6 D



Peak Review: 10x Standard 6 D



Sample Summary

Sample Name	10x Standard 6 D
Acquisition Date/Time	9/20/2022 11:14:07 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK Carryover
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	58
Sample Comment	

Quantitative Summary

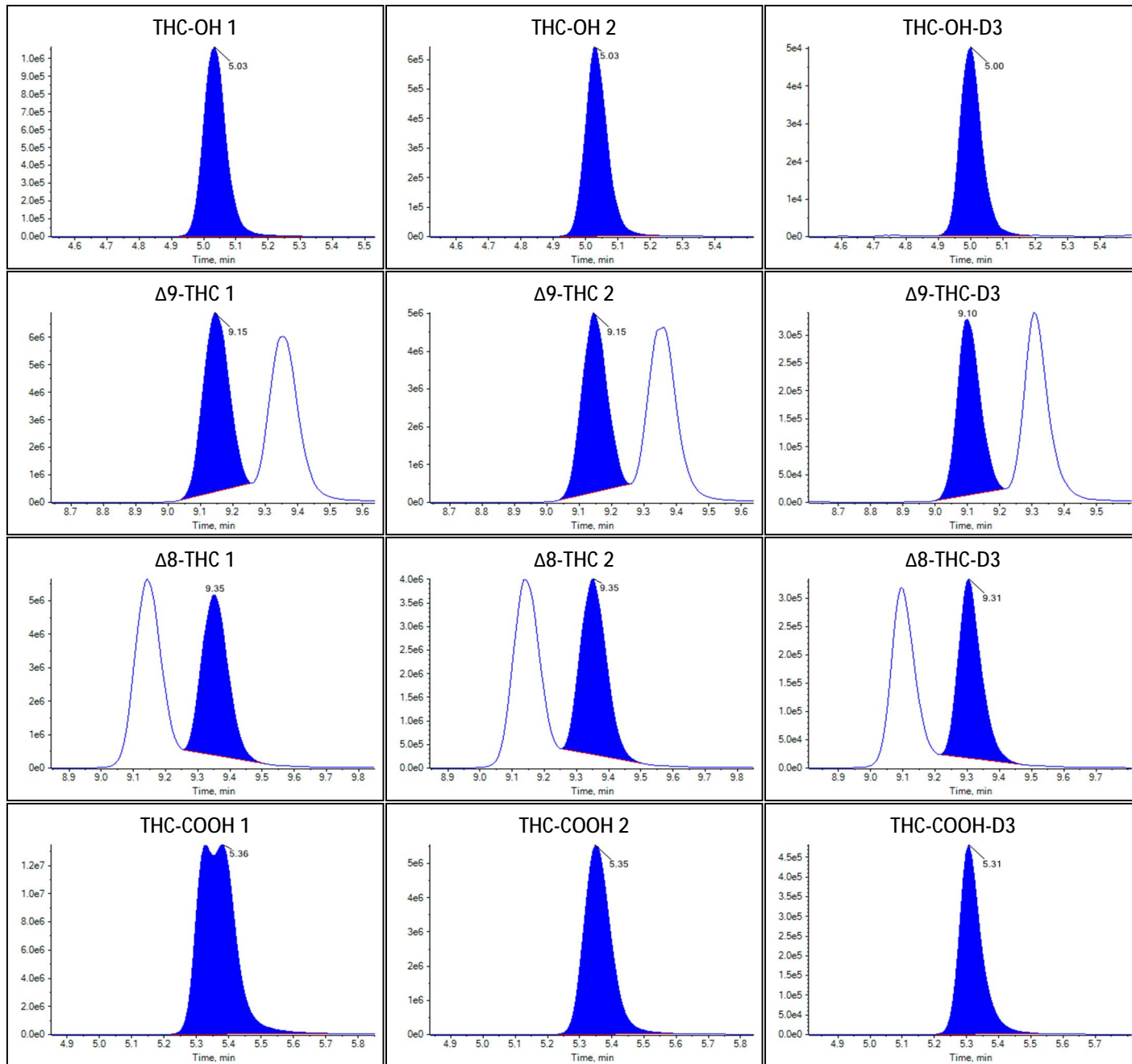
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.255e1	<2 points		
Δ9-THC	2.341e1	<3 points		
Δ8-THC	1.765e1	<3 points		
THC-COOH	4.944e1	<2 points		

Identification Summary: 10x Standard 6 D

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.578(Not calculated)
Δ9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.701(Not calculated)
Δ8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.769(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.289(Not calculated)

Peak Review: 10x Standard 6 D

Peak Review: 10x Standard 6 D



Sample Summary

Quantitative Analytes Report

Sample Name	10x Standard 6 E
Acquisition Date/Time	9/20/2022 11:28:13 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK Carryover
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	59
Sample Comment	

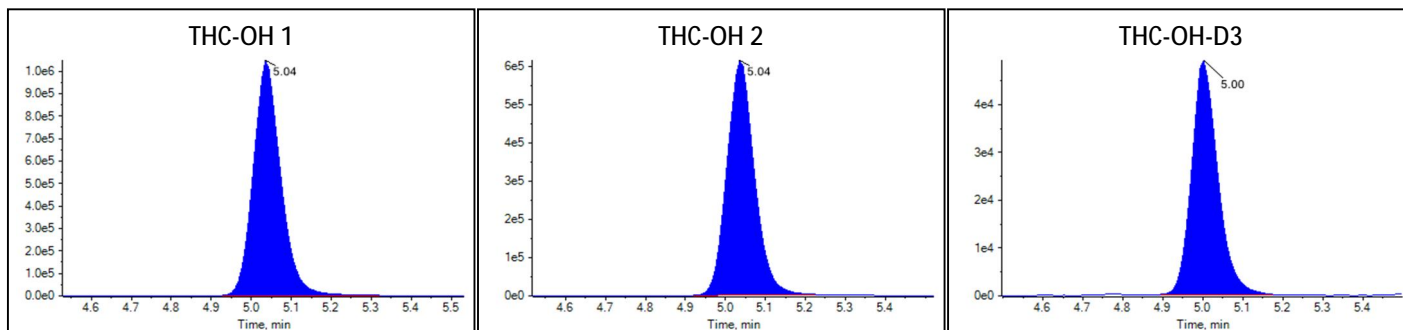
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.221e1	<2 points		
Δ9-THC	2.388e1	<3 points		
Δ8-THC	1.847e1	<3 points		
THC-COOH	5.113e1	<2 points		

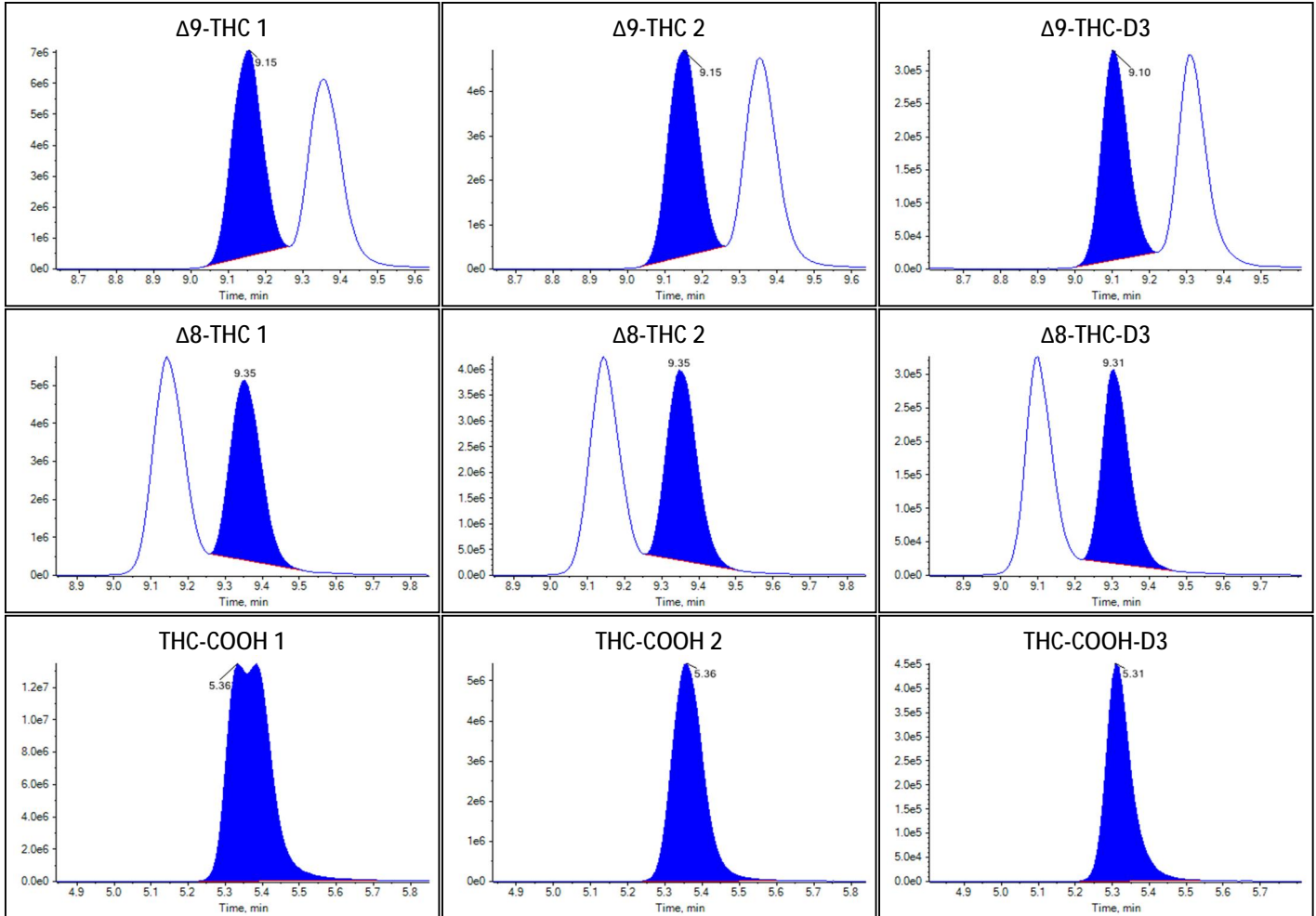
Identification Summary: 10x Standard 6 E

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.592(Not calculated)
Δ9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.704(Not calculated)
Δ8-THC 1	315.1 / 193.1	1.010(Not calculated)	
Δ8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.775(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.288(Not calculated)

Peak Review: 10x Standard 6 E



Peak Review: 10x Standard 6 E



Sample Summary

Sample Name	10x Standard 6 E
Acquisition Date/Time	9/20/2022 11:42:18 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK Carryover
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	59
Sample Comment	

Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.255e1	<2 points		
Δ9-THC	2.410e1	<3 points		
Δ8-THC	1.845e1	<3 points		

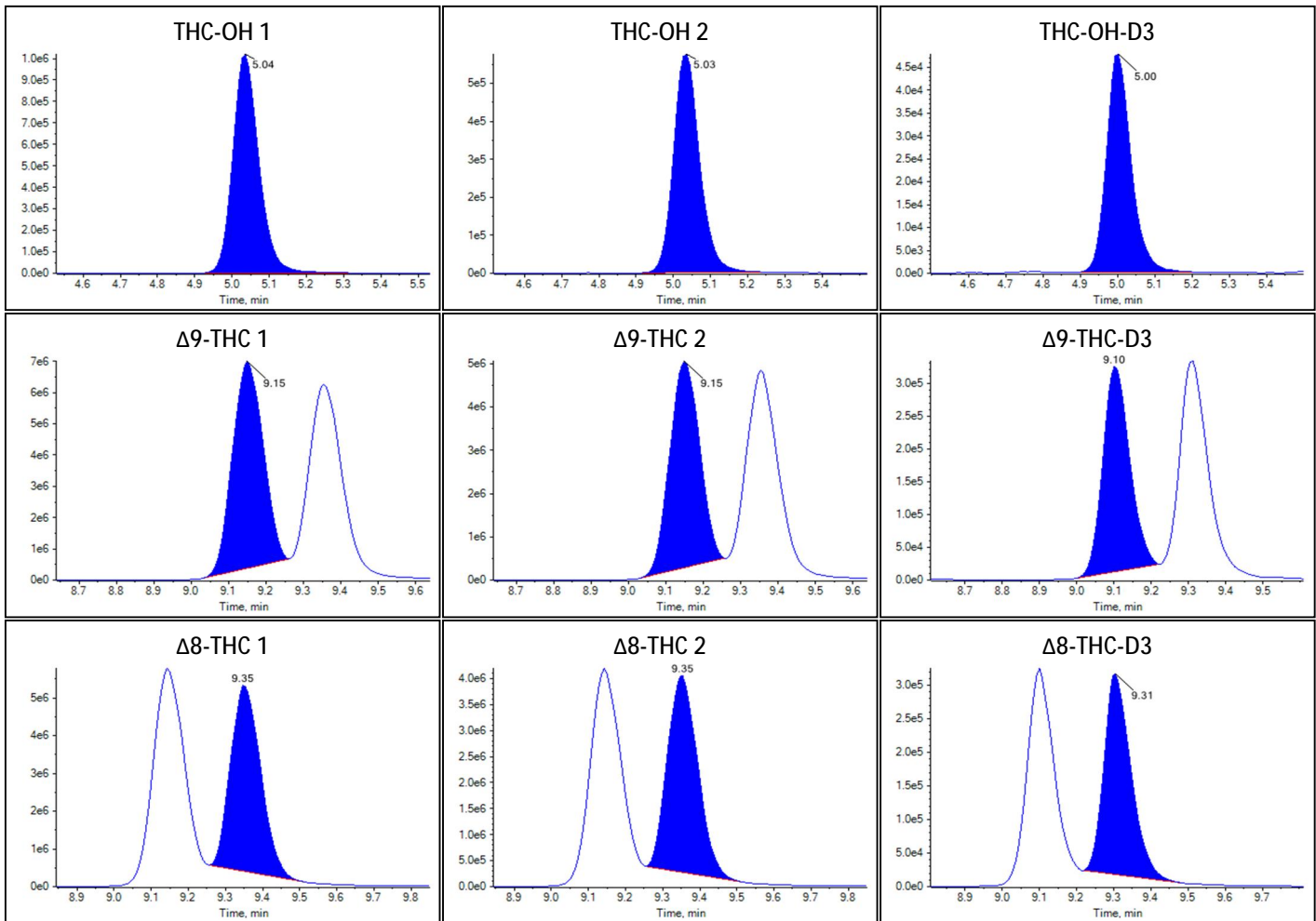
Quantitative Analytes Report

THC-COOH	5.047e1	<2 points	
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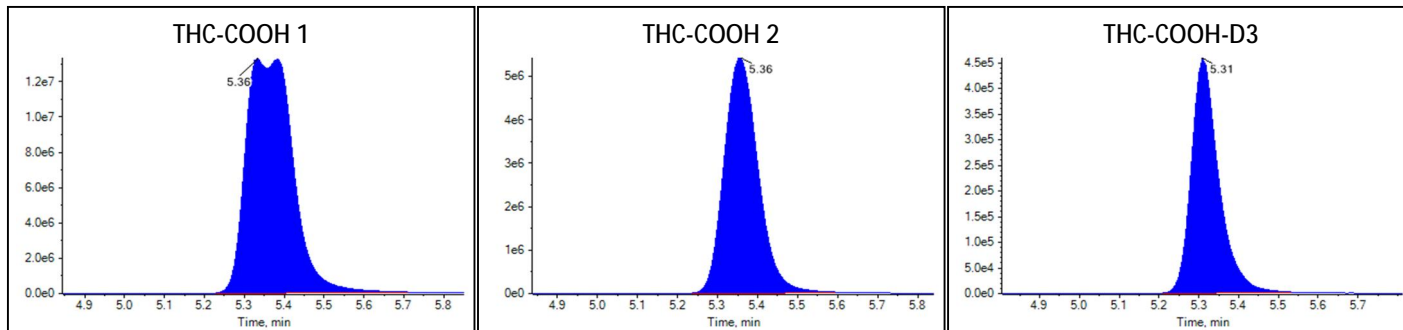
Identification Summary: 10x Standard 6 E

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.569(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.010(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.010(Not calculated)	0.702(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.774(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.289(Not calculated)

Peak Review: 10x Standard 6 E



Peak Review: 10x Standard 6 E



Sample Summary

Sample Name	Negative 4
Acquisition Date/Time	9/20/2022 11:56:24 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK Carryover
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	60
Sample Comment	

Quantitative Summary

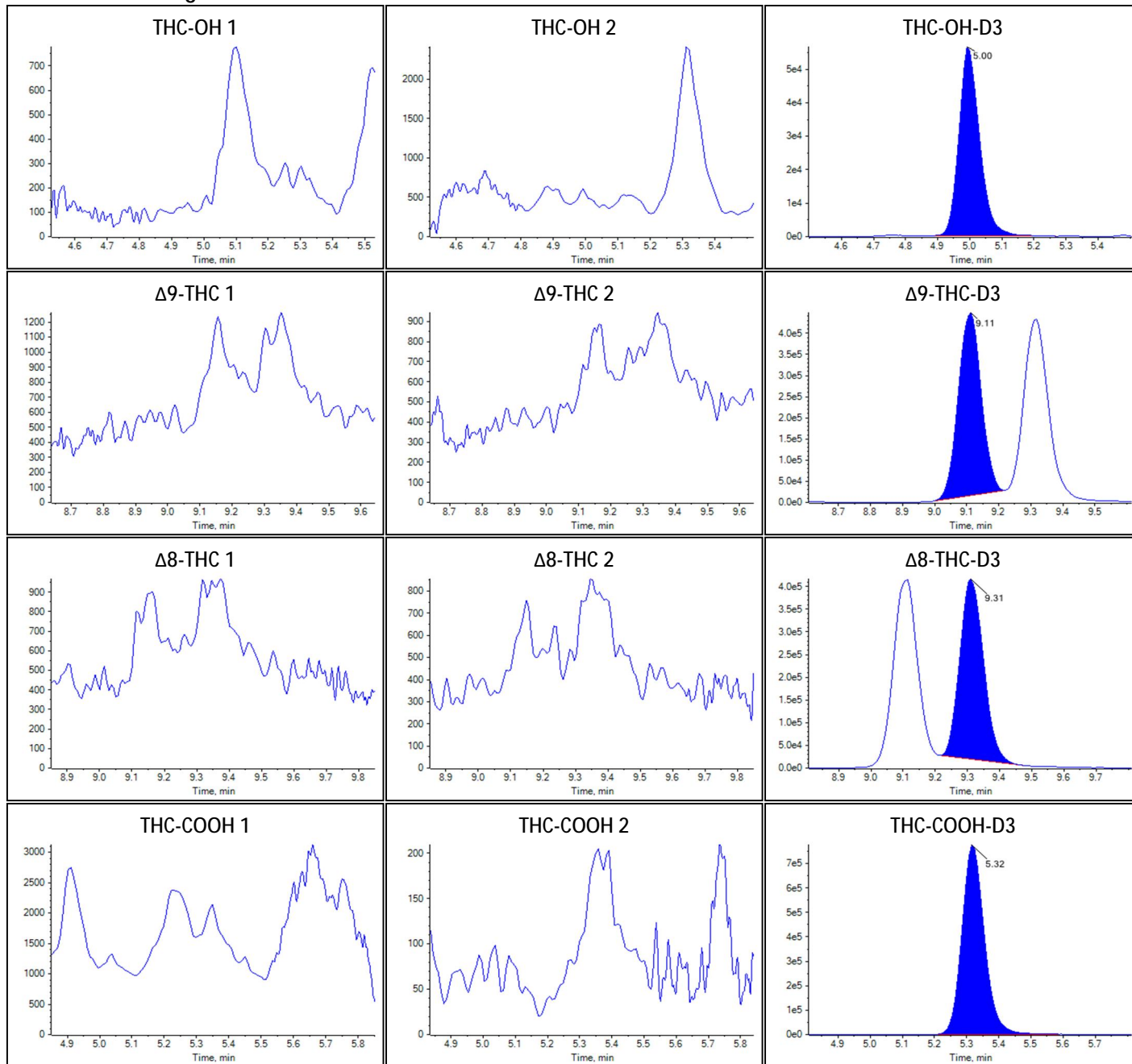
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ 9-THC	N/A	N/A		
Δ 8-THC	N/A	N/A		
THC-COOH	N/A	N/A		

Identification Summary: Negative 4

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	N/A(Not calculated)
Δ 9-THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	N/A(Not calculated)	N/A(Not calculated)
Δ 8-THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	N/A(Not calculated)	N/A(Not calculated)
THC-COOH 1	343.0 / 299.1	N/A(Not calculated)	
THC-COOH 2	343.0 / 191.0	N/A(Not calculated)	N/A(Not calculated)

Peak Review: Negative 4

Peak Review: Negative 4



Sample Summary

Quantitative Analytes Report

Sample Name	Blank1
Acquisition Date/Time	9/21/2022 12:10:29 AM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK Carryover
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	105
Sample Comment	

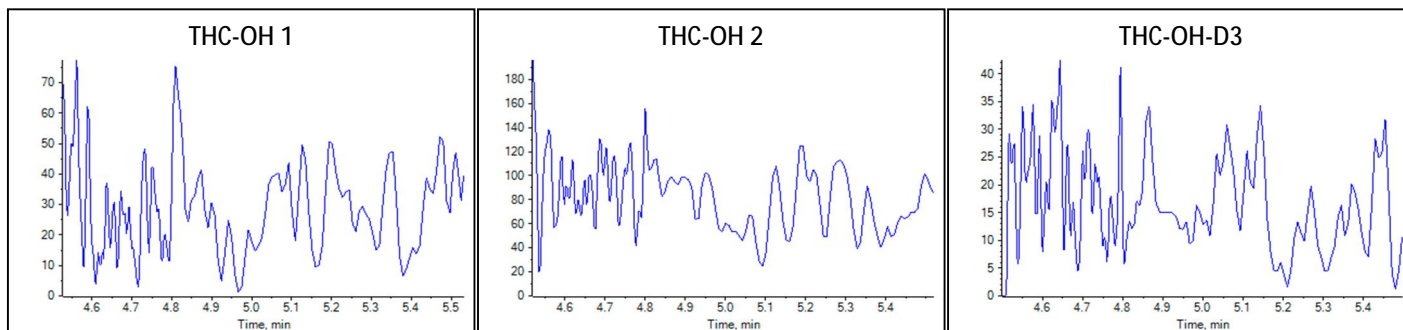
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ 9-THC	N/A	N/A		
Δ 8-THC	N/A	N/A		
THC-COOH	N/A	N/A		

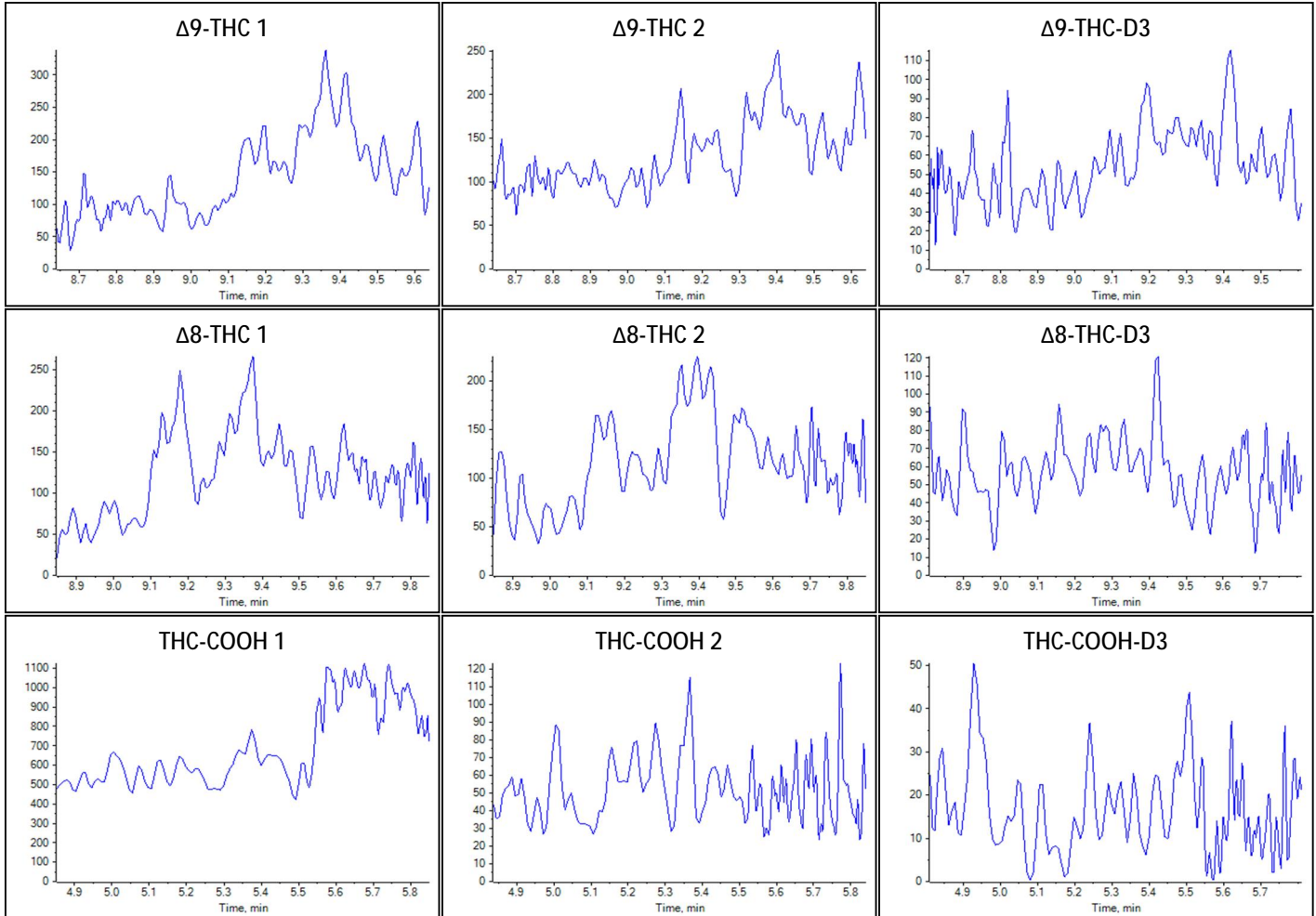
Identification Summary: Blank1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	N/A(Not calculated)
Δ 9-THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	N/A(Not calculated)	N/A(Not calculated)
Δ 8-THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	N/A(Not calculated)	N/A(Not calculated)
THC-COOH 1	343.0 / 299.1	N/A(Not calculated)	
THC-COOH 2	343.0 / 191.0	N/A(Not calculated)	N/A(Not calculated)

Peak Review: Blank1



Peak Review: Blank1



Sample Summary

Sample Name	Blank2
Acquisition Date/Time	9/21/2022 12:24:35 AM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK Carryover
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	105
Sample Comment	

Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
$\Delta 9$ -THC	N/A	N/A		
$\Delta 8$ -THC	N/A	N/A		

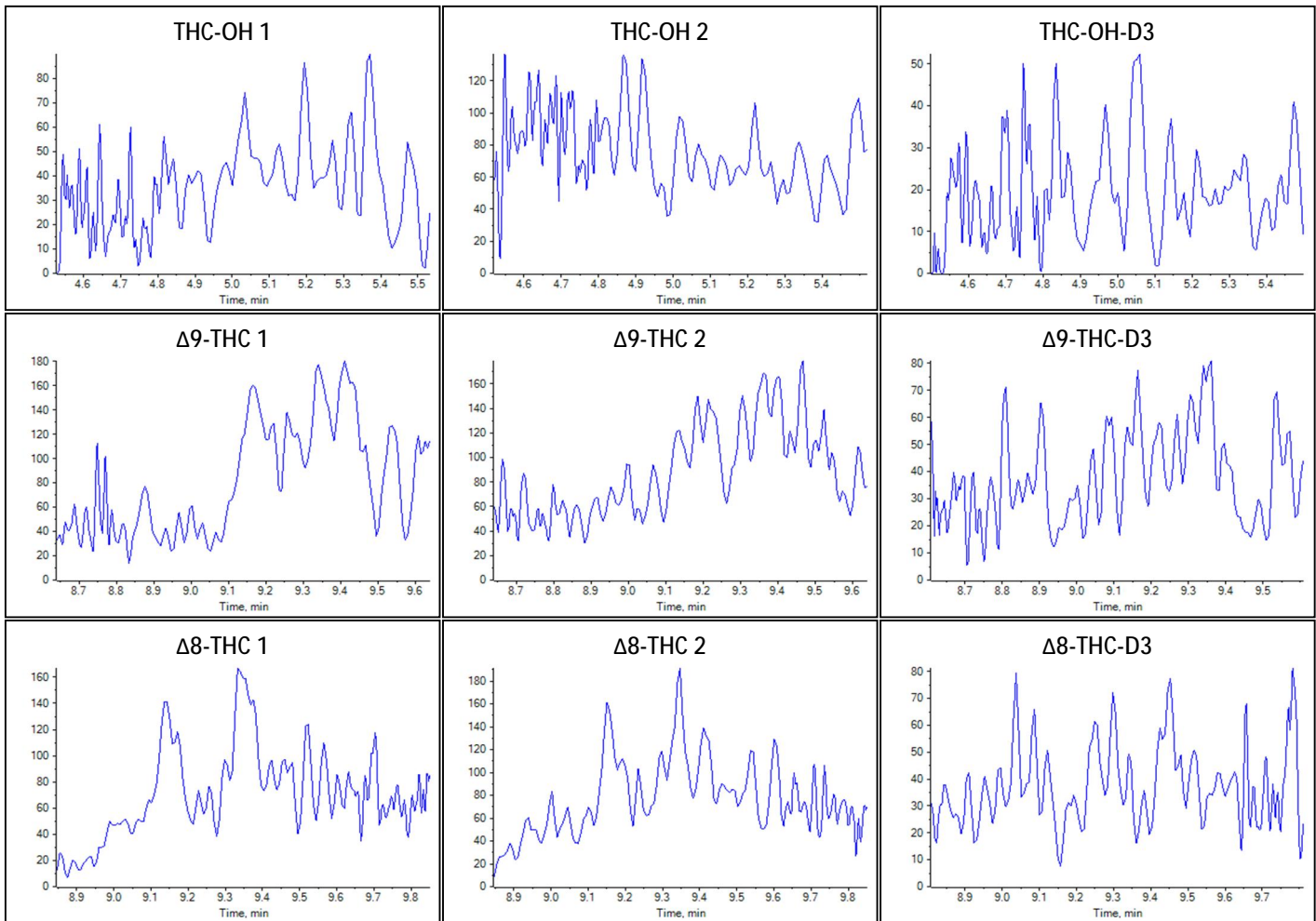
Quantitative Analytes Report

THC-COOH	N/A	N/A	
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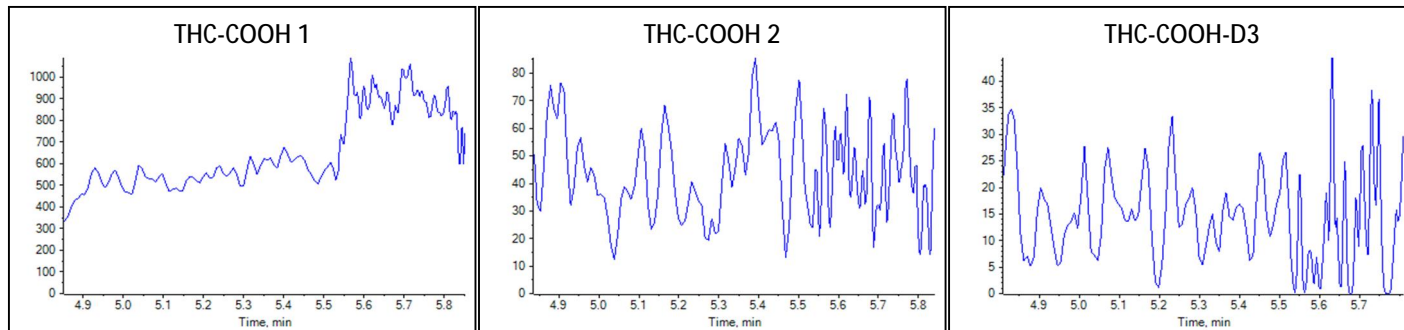
Identification Summary: Blank2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	N/A(Not calculated)
Δ 9-THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	N/A(Not calculated)	N/A(Not calculated)
Δ 8-THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	N/A(Not calculated)	N/A(Not calculated)
THC-COOH 1	343.0 / 299.1	N/A(Not calculated)	
THC-COOH 2	343.0 / 191.0	N/A(Not calculated)	N/A(Not calculated)

Peak Review: Blank2



Peak Review: Blank2





Sample Summary

Sample Name	Standard 1
Acquisition Date/Time	2022-09-20T16:11:39
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920 SK Carryover Quant
Sample Type	Standard
File Name	20220920 SK.wiff
Position	30
Sample Comment	

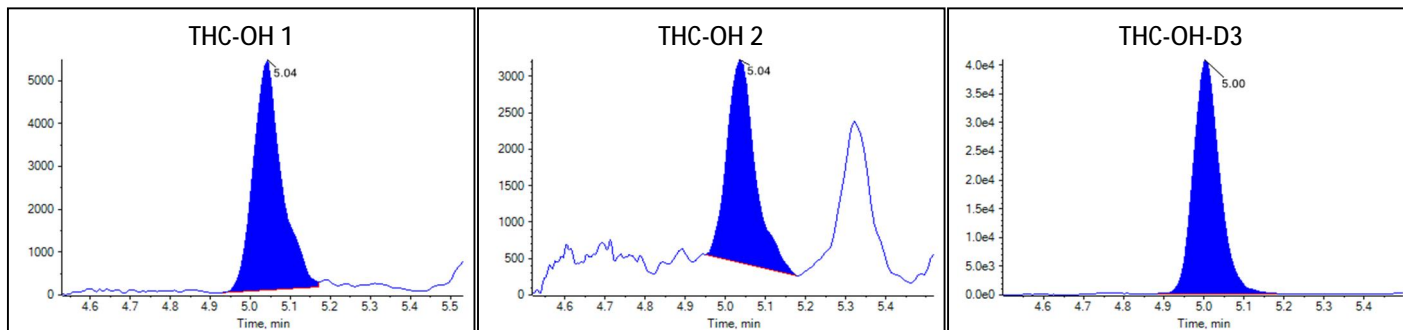
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.1435	1.126		
Δ^9 -THC	0.0297	1.130		
Δ^8 -THC	0.0218	1.159		
THC-COOH	0.6093	5.279		

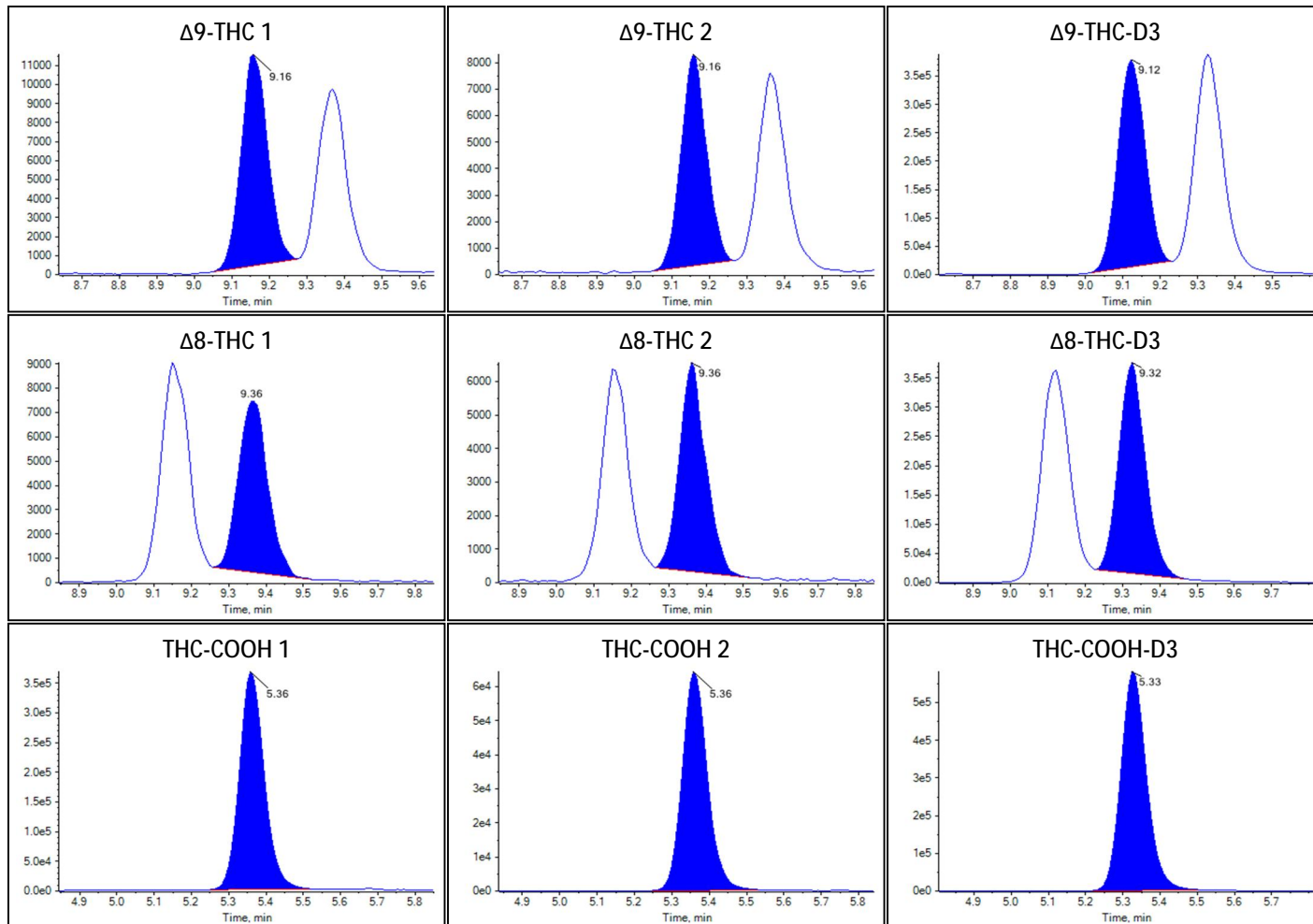
Identification Summary: Standard 1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.516(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.689(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.785(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.178(Pass)

Peak Review: Standard 1



Peak Review: Standard 1





Sample Summary

Sample Name	Standard 2
Acquisition Date/Time	2022-09-20T16:25:44
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920 SK Carryover Quant
Sample Type	Standard
File Name	20220920 SK.wiff
Position	31
Sample Comment	

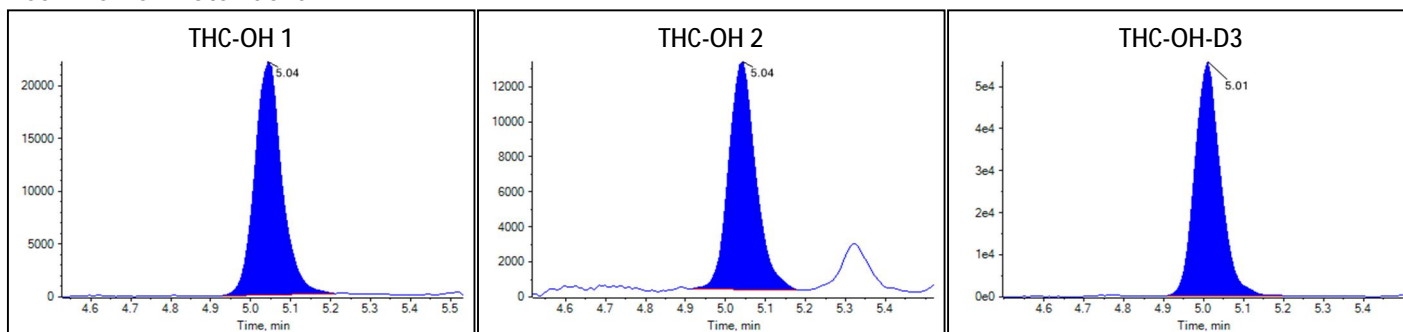
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.4215	3.558		
Δ 9-THC	0.1211	4.379		
Δ 8-THC	0.0908	4.217		
THC-COOH	1.0027	9.327		

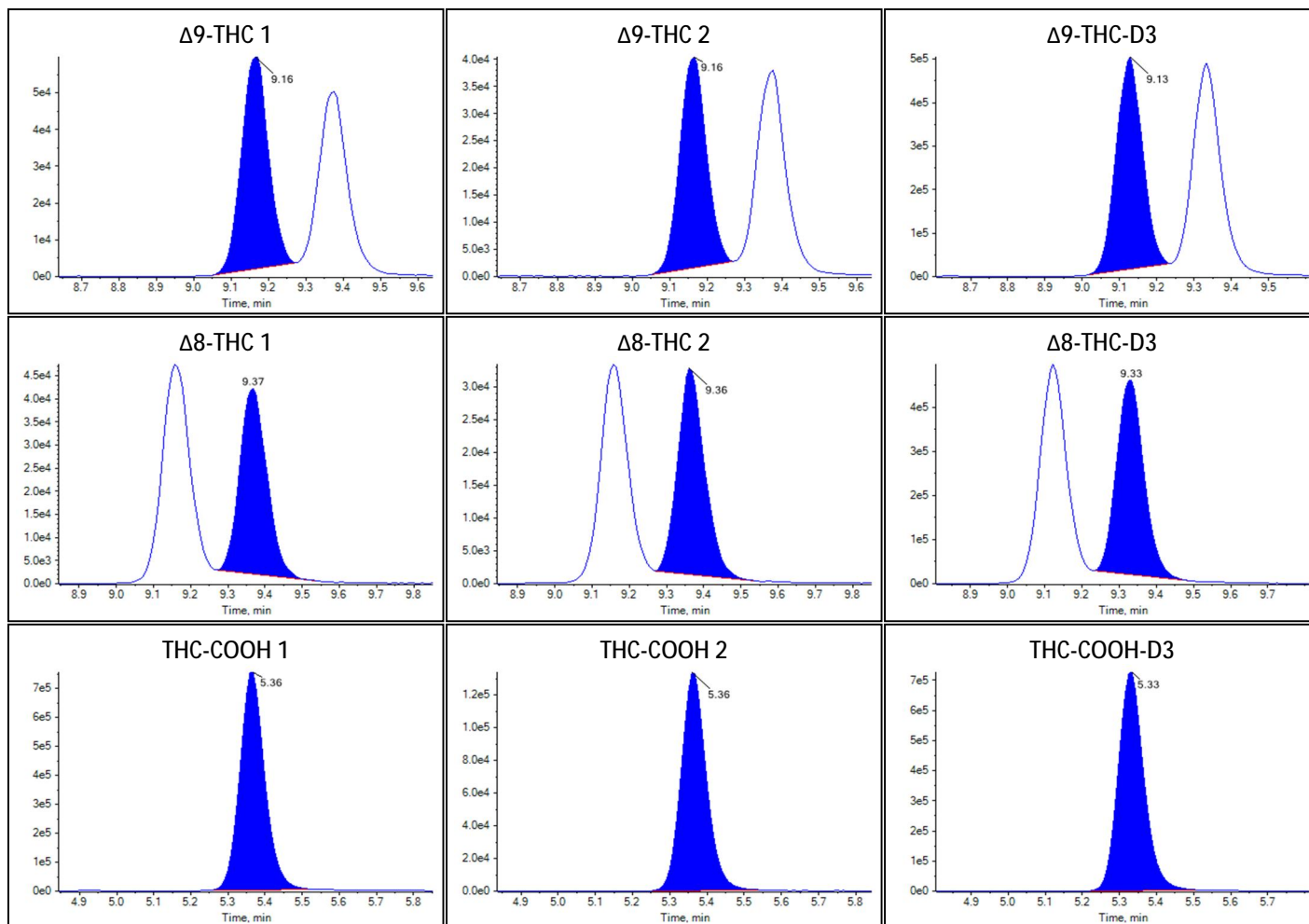
Identification Summary: Standard 2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.588(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.665(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.776(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.179(Pass)

Peak Review: Standard 2



Peak Review: Standard 2





Sample Summary

Sample Name	Standard 3
Acquisition Date/Time	2022-09-20T16:39:49
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920 SK Carryover Quant
Sample Type	Standard
File Name	20220920 SK.wiff
Position	32
Sample Comment	

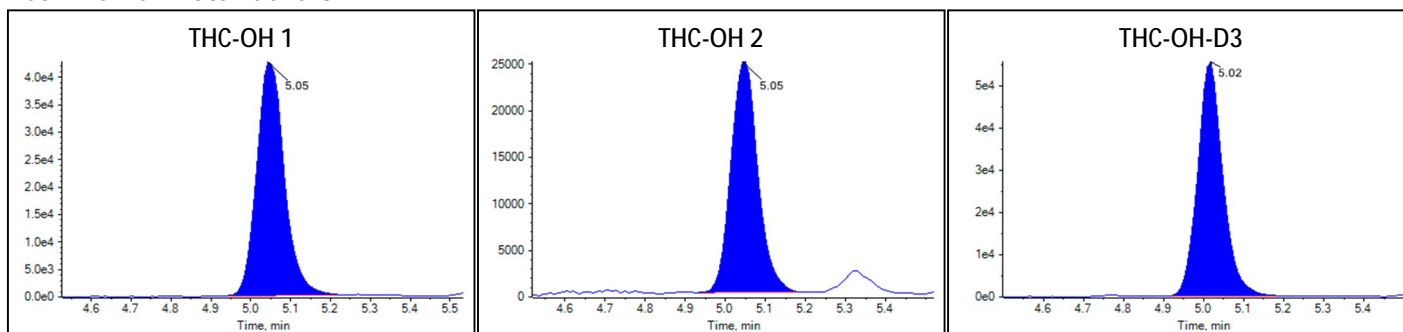
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.8438	7.254		
Δ^9 -THC	0.7757	28.336		
Δ^8 -THC	0.6009	28.310		
THC-COOH	2.5015	24.749		

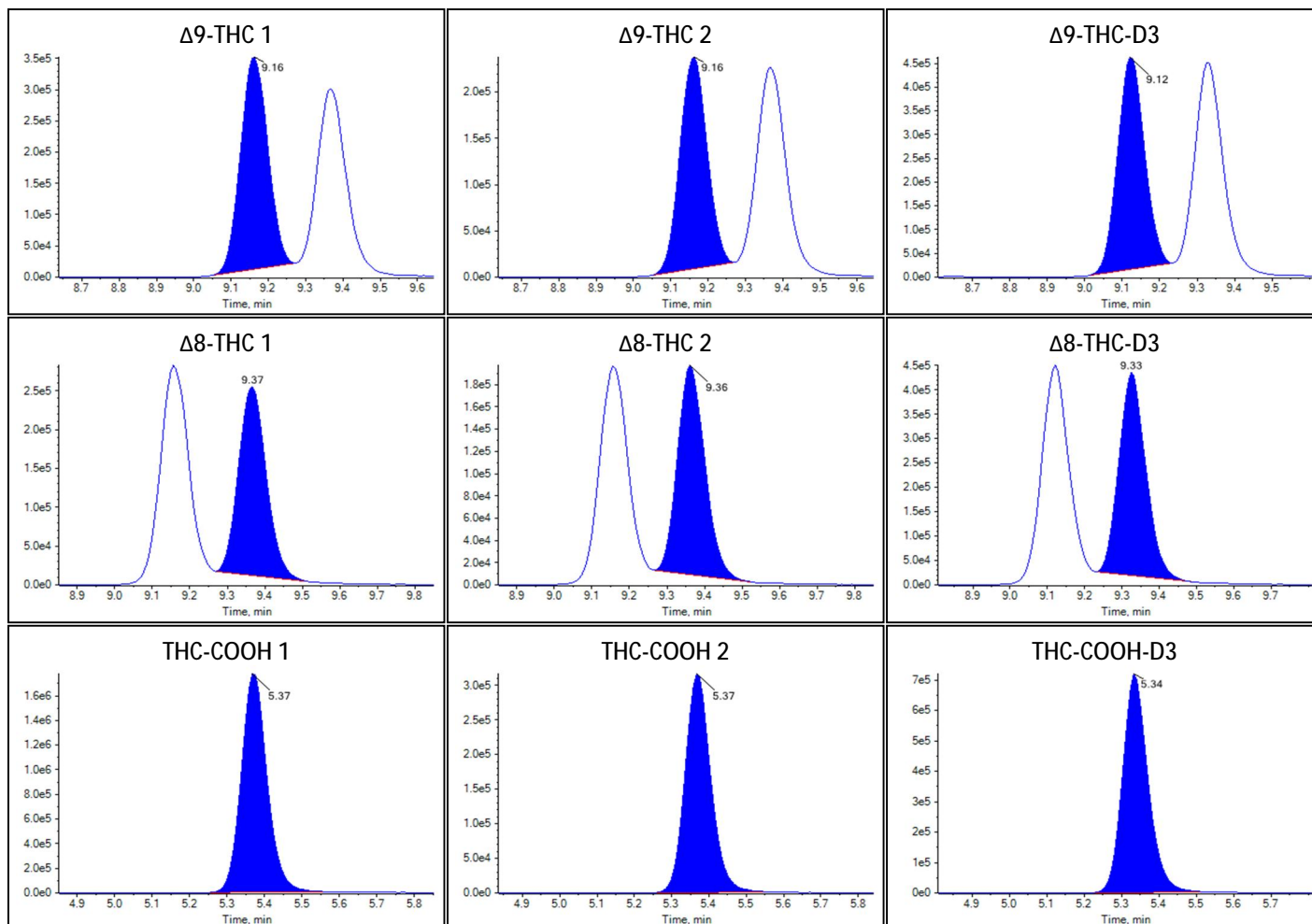
Identification Summary: Standard 3

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.564(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.671(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.763(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.179(Pass)

Peak Review: Standard 3



Peak Review: Standard 3





Sample Summary

Sample Name	Standard 4
Acquisition Date/Time	2022-09-20T16:53:54
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920 SK Carryover Quant
Sample Type	Standard
File Name	20220920 SK.wiff
Position	33
Sample Comment	

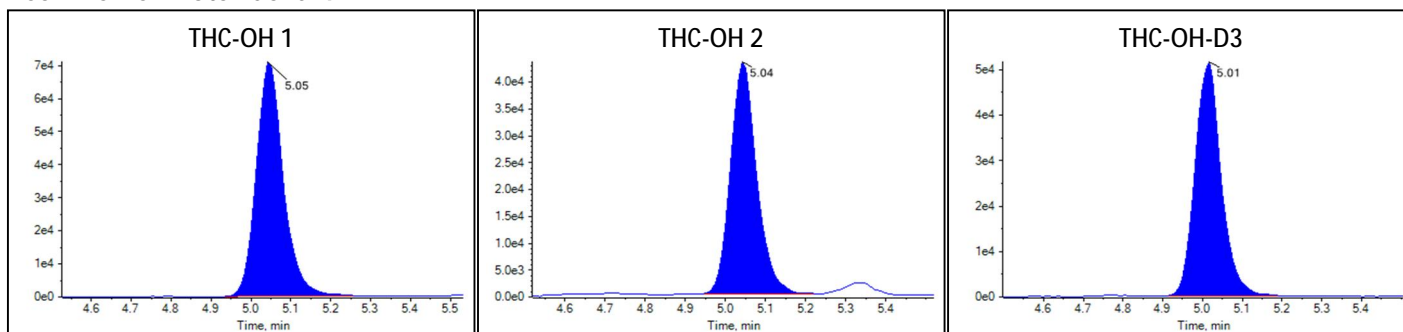
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.4183	12.282		
Δ^9 -THC	1.3662	51.076		
Δ^8 -THC	1.0106	50.078		
THC-COOH	5.0970	51.456		

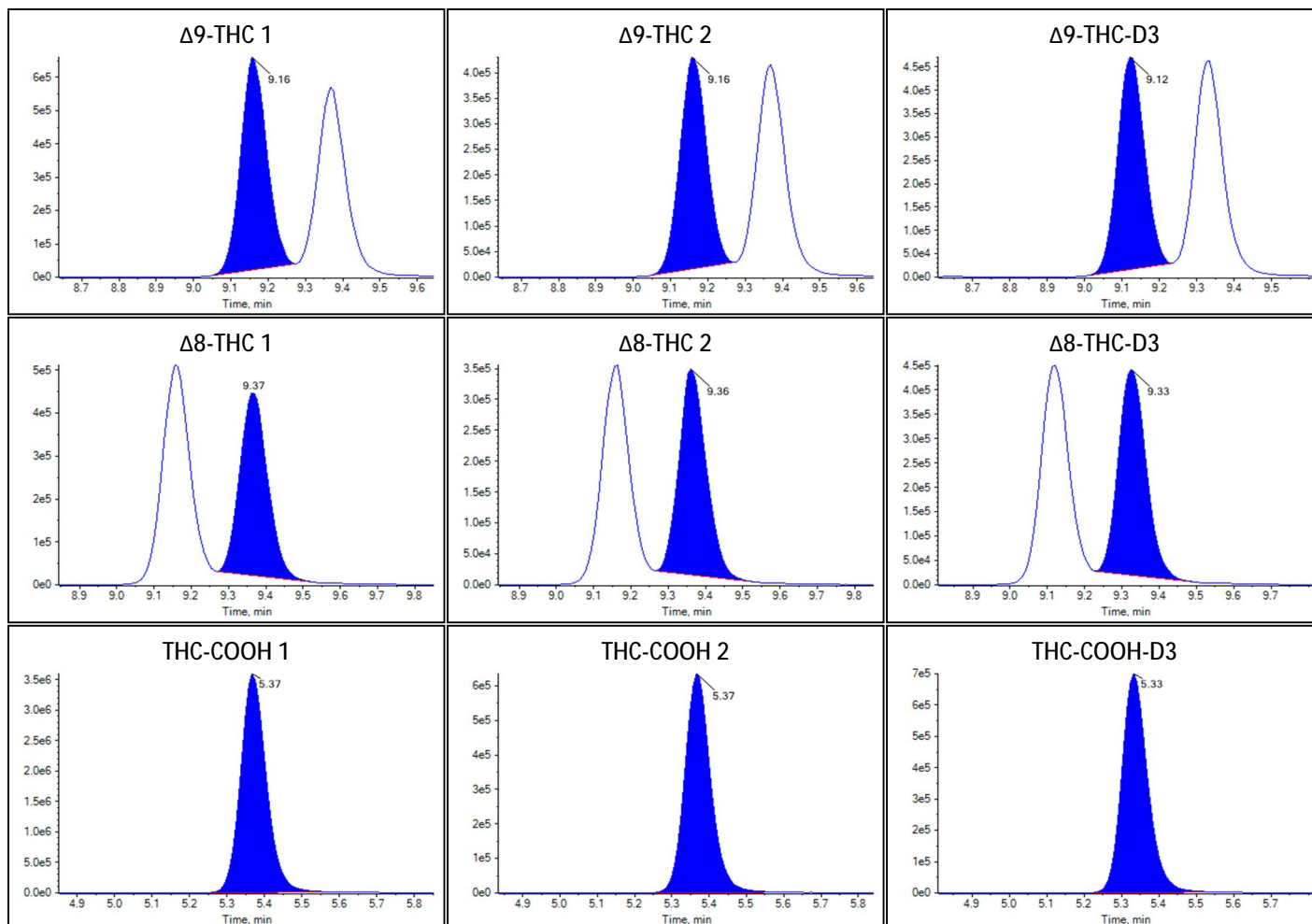
Identification Summary: Standard 4

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.592(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.665(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.765(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.178(Pass)

Peak Review: Standard 4



Peak Review: Standard 4





Sample Summary

Sample Name	Standard 5
Acquisition Date/Time	2022-09-20T17:08:00
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920 SK Carryover Quant
Sample Type	Standard
File Name	20220920 SK.wiff
Position	34
Sample Comment	

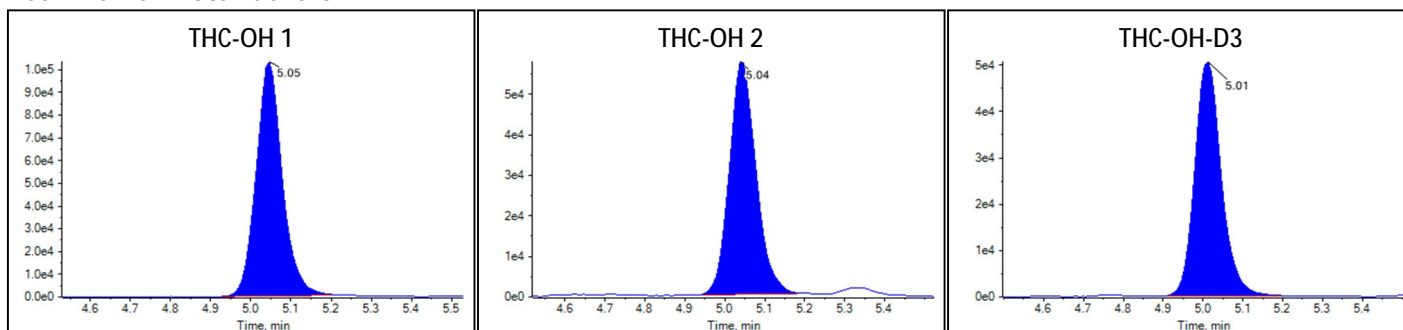
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.9859	17.249		
Δ^9 -THC	1.9354	74.187		
Δ^8 -THC	1.4623	77.830		
THC-COOH	7.3993	75.146		

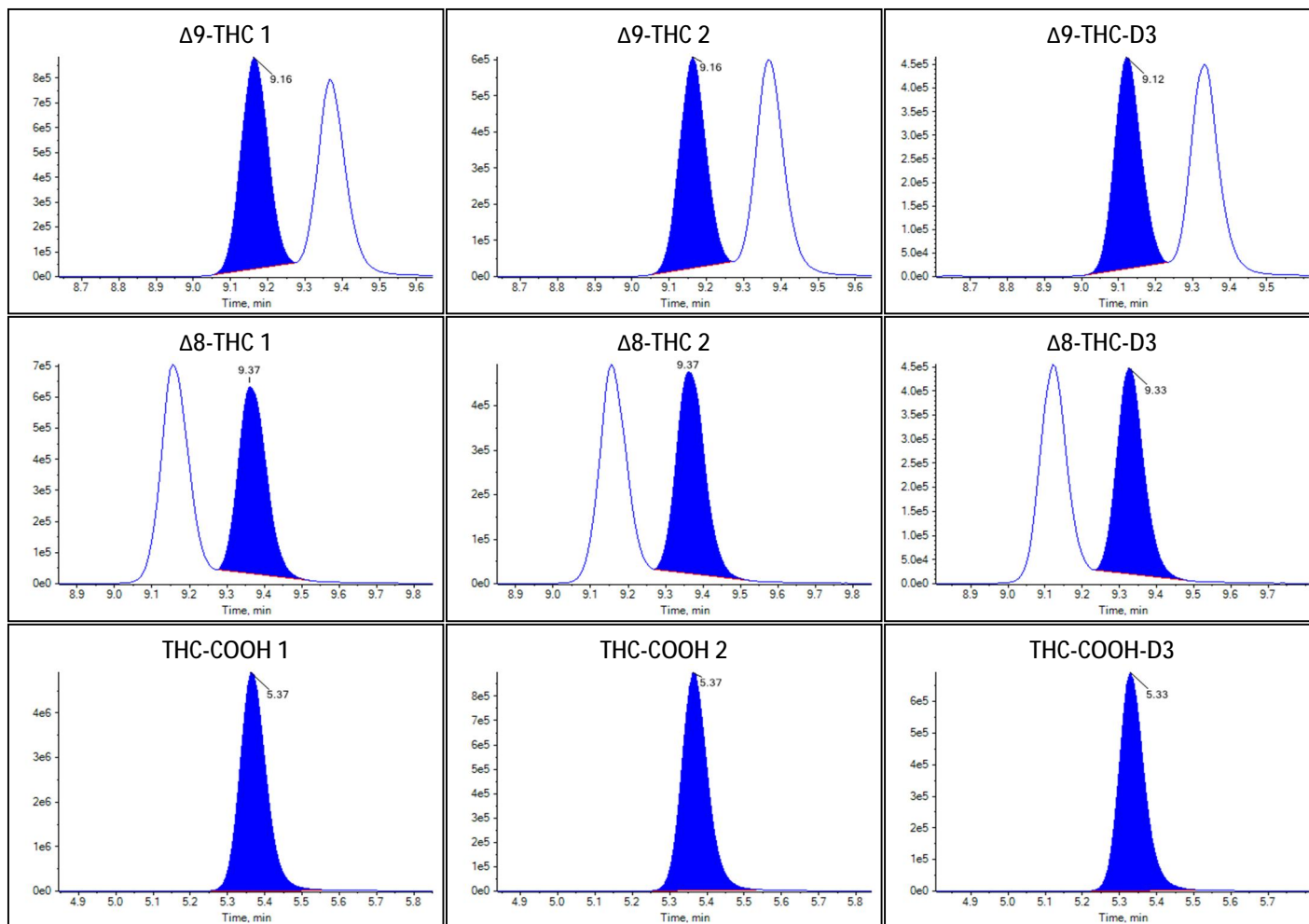
Identification Summary: Standard 5

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.573(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.670(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.763(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.179(Pass)

Peak Review: Standard 5



Peak Review: Standard 5





Sample Summary

Sample Name	Standard 6
Acquisition Date/Time	2022-09-20T17:22:02
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920 SK Carryover Quant
Sample Type	Standard
File Name	20220920 SK.wiff
Position	35
Sample Comment	

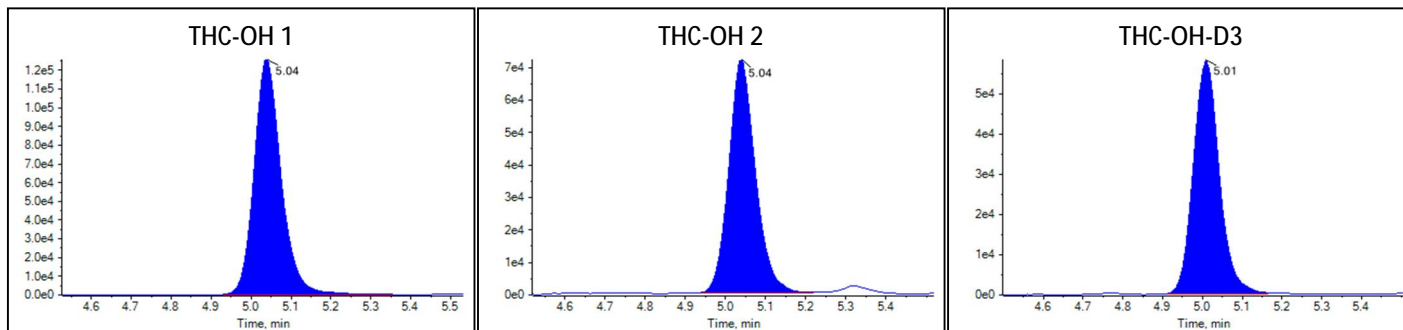
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.2468	19.532		
Δ^9 -THC	2.4641	96.890		
Δ^8 -THC	1.6930	94.297		
THC-COOH	9.7218	99.043		

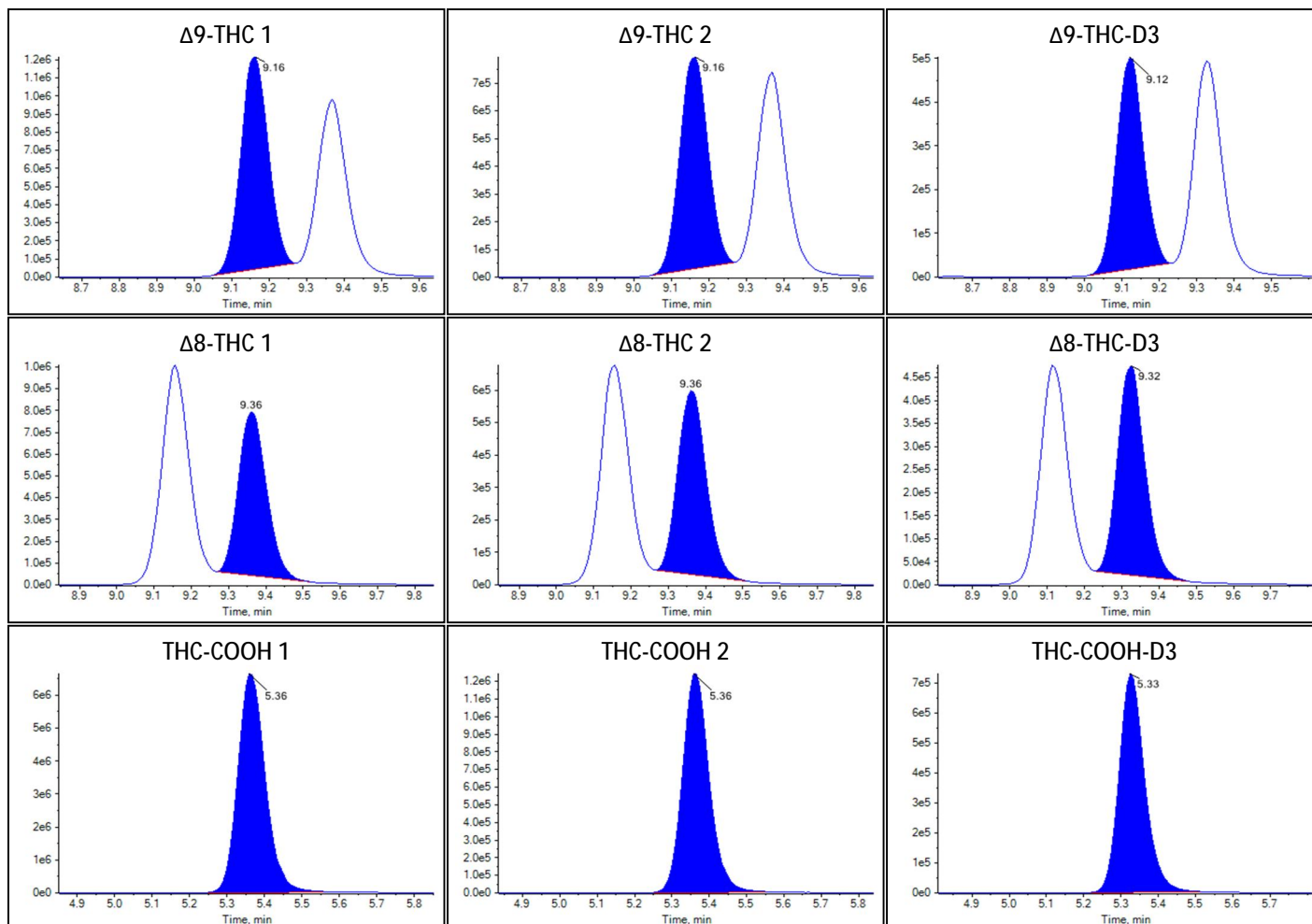
Identification Summary: Standard 6

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.562(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.669(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.765(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.182(Pass)

Peak Review: Standard 6



Peak Review: Standard 6





Sample Summary

Sample Name	10x Standard 6 A
Acquisition Date/Time	2022-09-20T21:21:28
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920 SK Carryover Quant
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	52
Sample Comment	

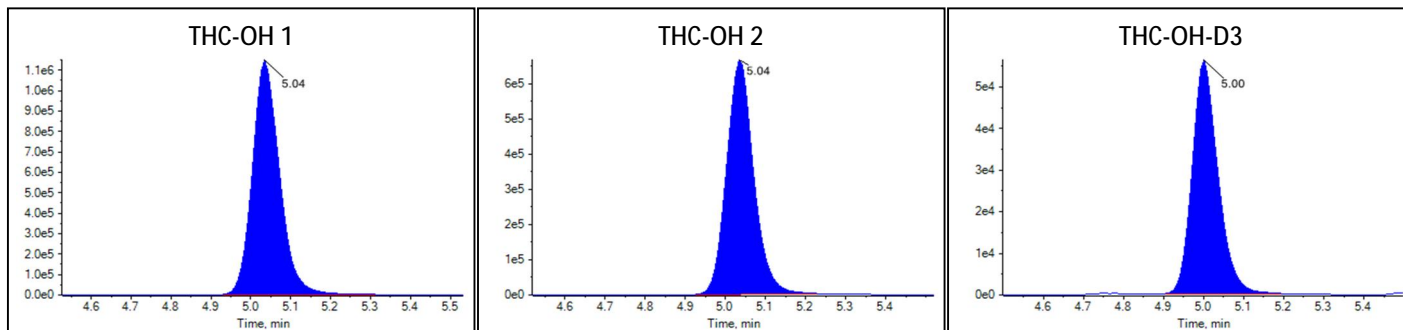
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	21.6105	188.989		
Δ^9 -THC	23.2386	no root		
Δ^8 -THC	17.9821	no root		
THC-COOH	50.0997	514.515		

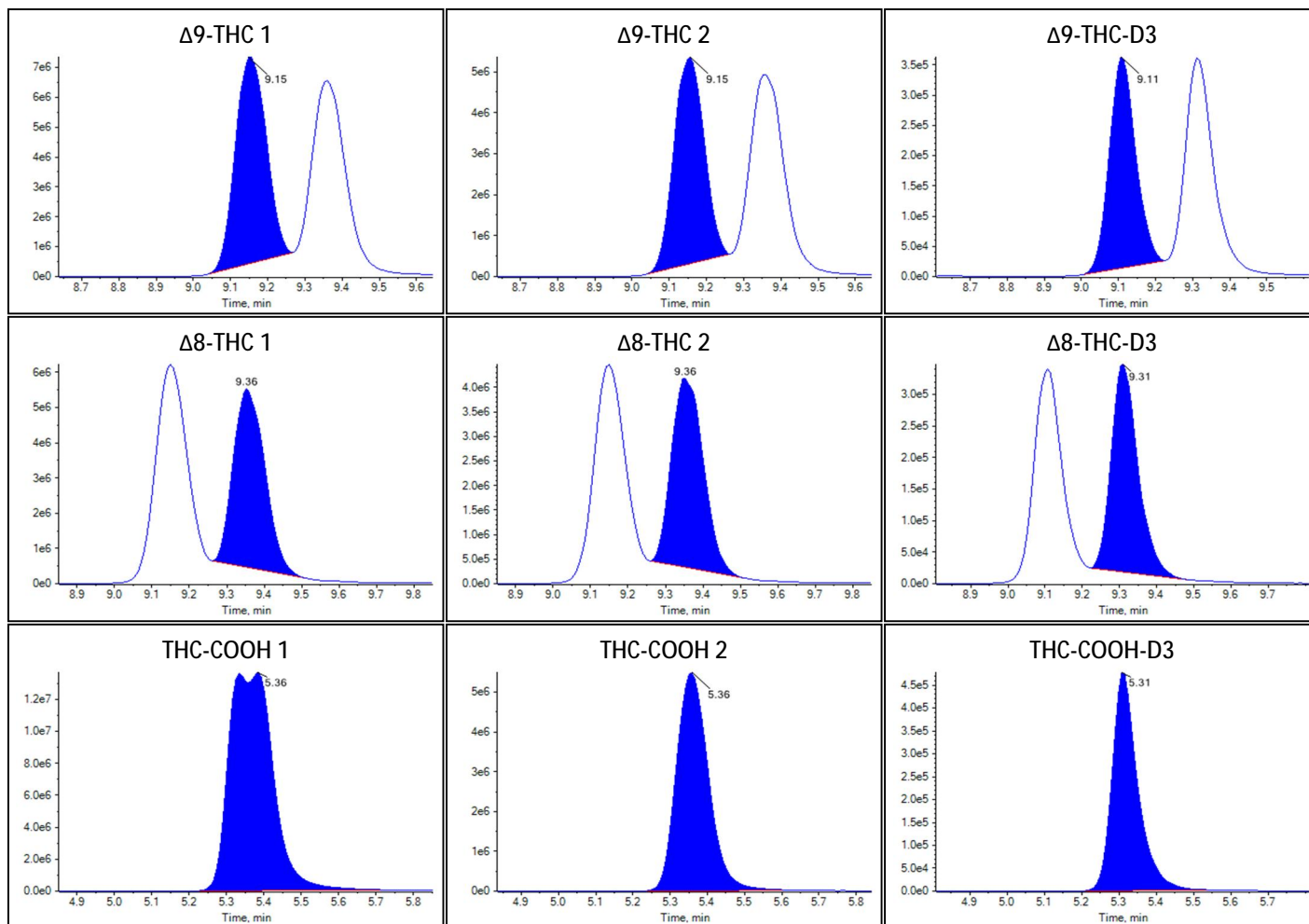
Identification Summary: 10x Standard 6 A

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.576(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.713(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.010(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.770(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.288(Fail)

Peak Review: 10x Standard 6 A



Peak Review: 10x Standard 6 A





Sample Summary

Sample Name	Negative 1
Acquisition Date/Time	2022-09-20T21:35:33
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920 SK Carryover Quant
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	53
Sample Comment	

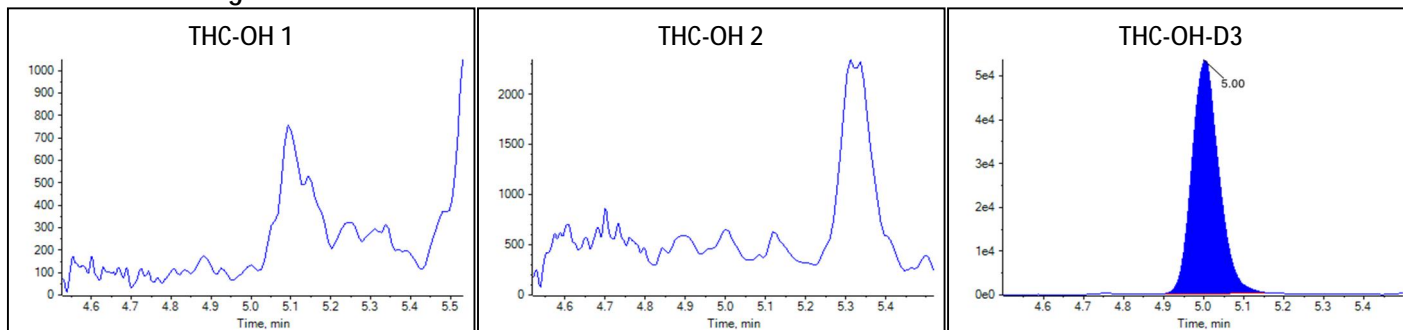
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	N/A	N/A		

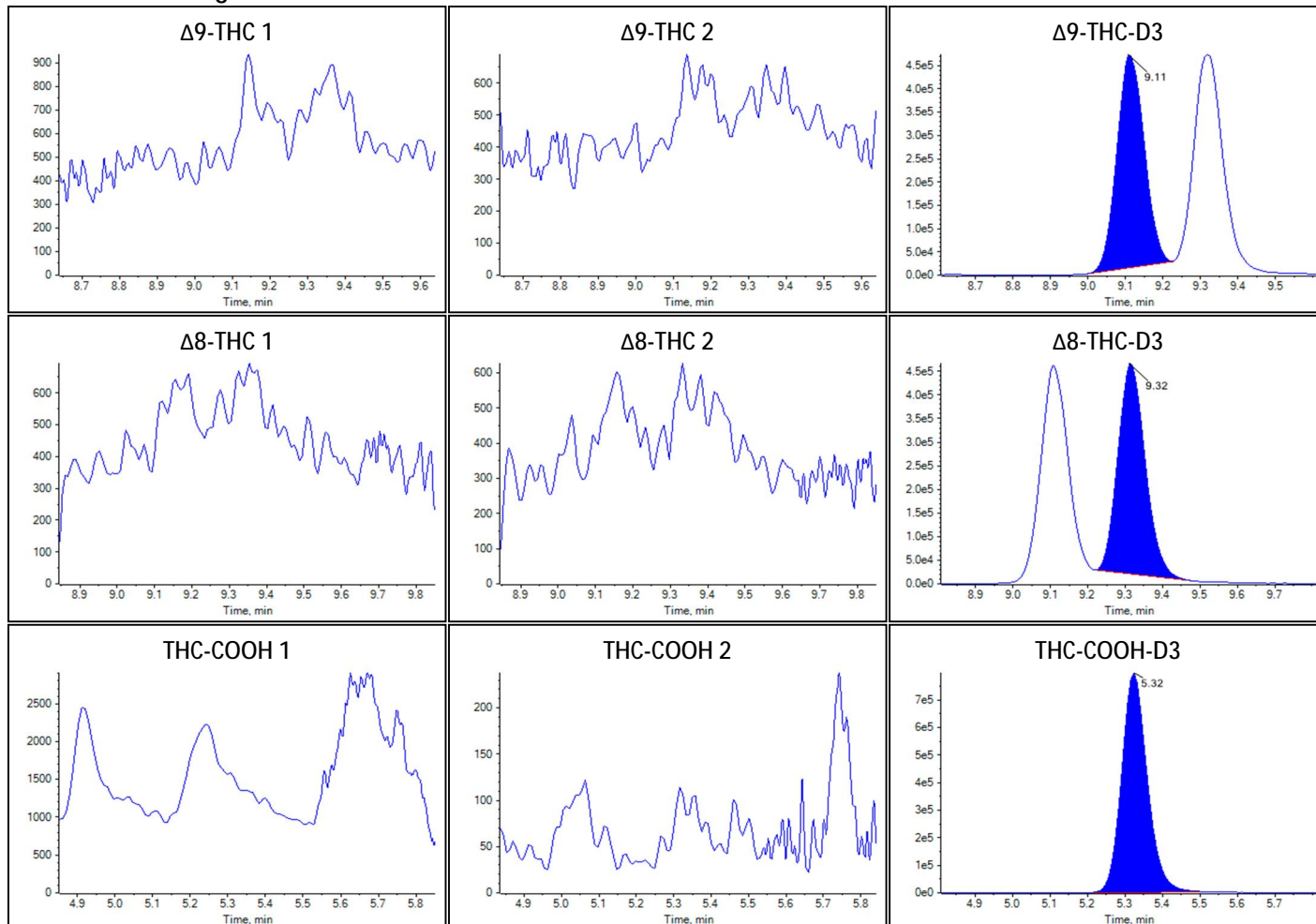
Identification Summary: Negative 1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ^9 -THC 1	315.1 / 193.1	N/A	
Δ^9 -THC 2	315.1 / 123.0	N/A	N/A
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	N/A	
THC-COOH 2	343.0 / 191.0	N/A	N/A

Peak Review: Negative 1



Peak Review: Negative 1





Sample Summary

Sample Name	10x Standard 6 B
Acquisition Date/Time	2022-09-20T21:49:38
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920 SK Carryover Quant
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	54
Sample Comment	

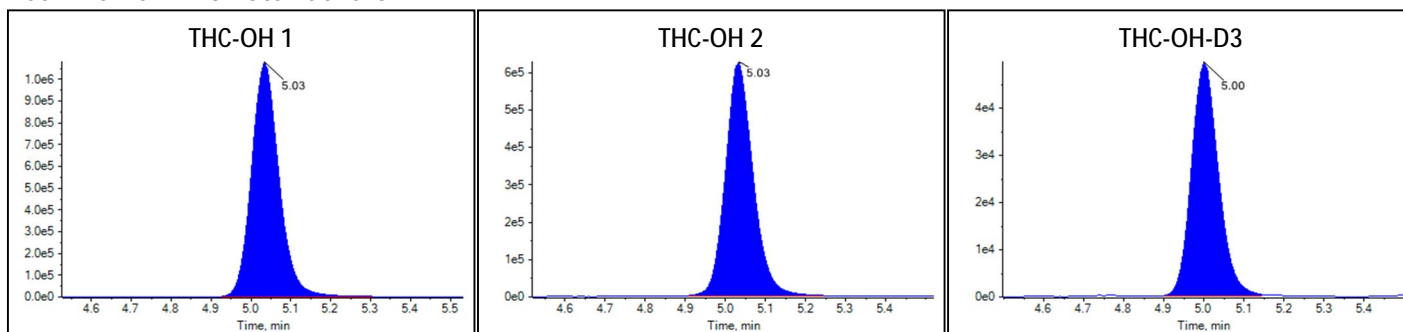
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	22.2179	194.304		
Δ^9 -THC	23.2559	no root		
Δ^8 -THC	17.6236	no root		
THC-COOH	50.6599	520.279		

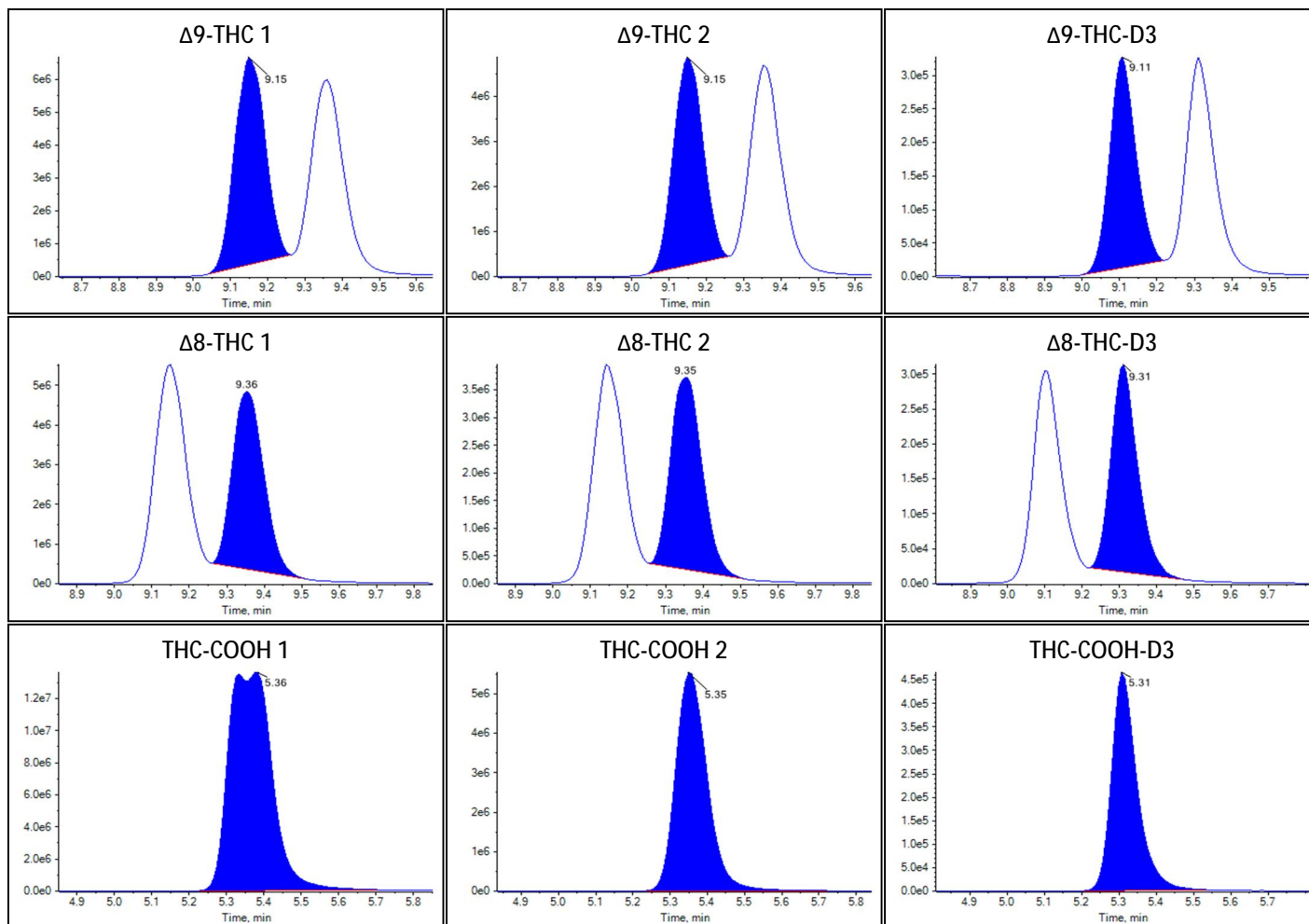
Identification Summary: 10x Standard 6 B

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.582(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.714(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.776(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.290(Fail)

Peak Review: 10x Standard 6 B



Peak Review: 10x Standard 6 B





Sample Summary

Sample Name	Negative 2
Acquisition Date/Time	2022-09-20T22:03:40
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920 SK Carryover Quant
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	55
Sample Comment	

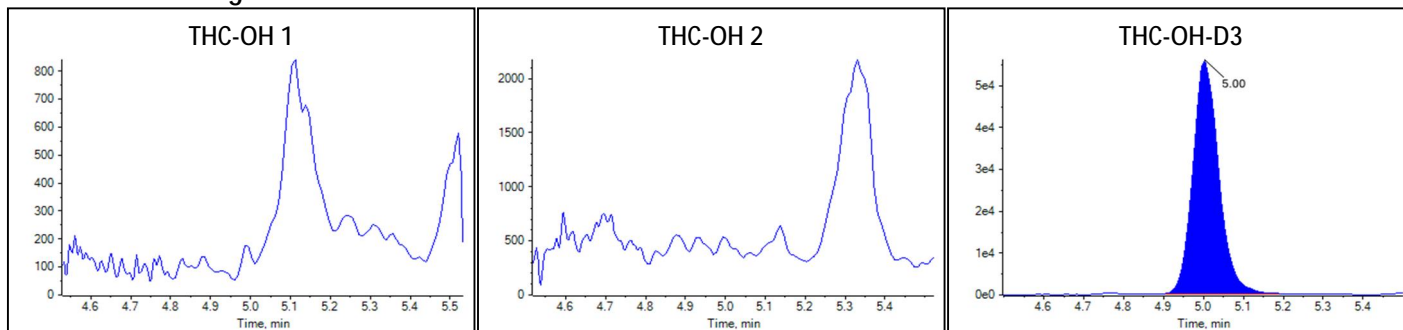
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	N/A	N/A		

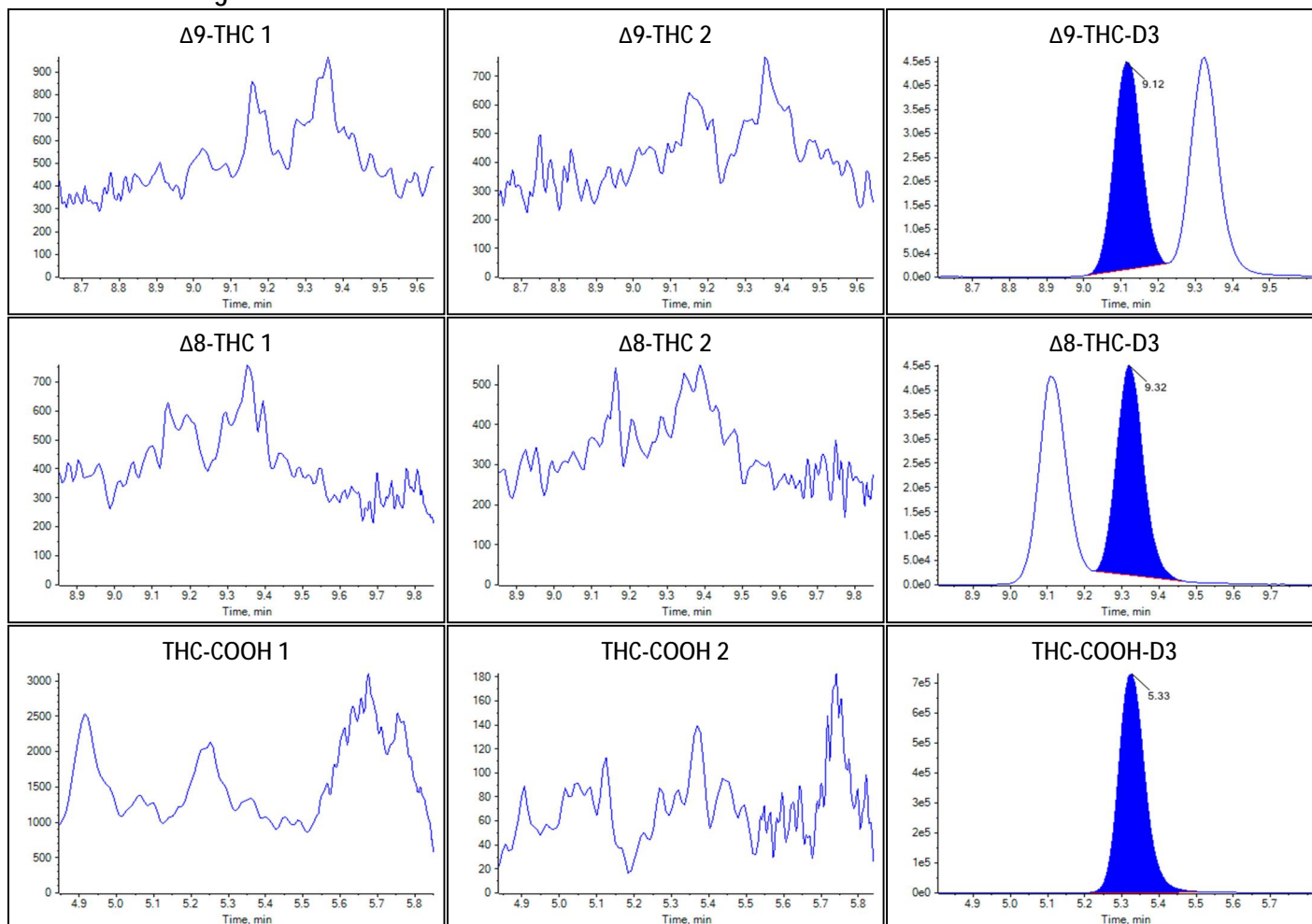
Identification Summary: Negative 2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ^9 -THC 1	315.1 / 193.1	N/A	
Δ^9 -THC 2	315.1 / 123.0	N/A	N/A
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	N/A	
THC-COOH 2	343.0 / 191.0	N/A	N/A

Peak Review: Negative 2



Peak Review: Negative 2





Sample Summary

Sample Name	10x Standard 6 C
Acquisition Date/Time	2022-09-20T22:17:46
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920 SK Carryover Quant
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	56
Sample Comment	

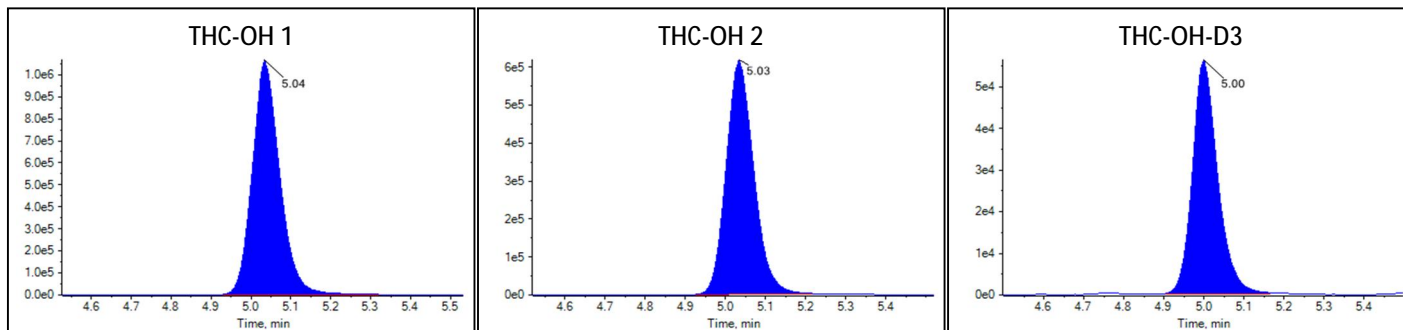
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	20.6589	180.662		
Δ^9 -THC	23.5287	no root		
Δ^8 -THC	18.0687	no root		
THC-COOH	48.9866	503.062		

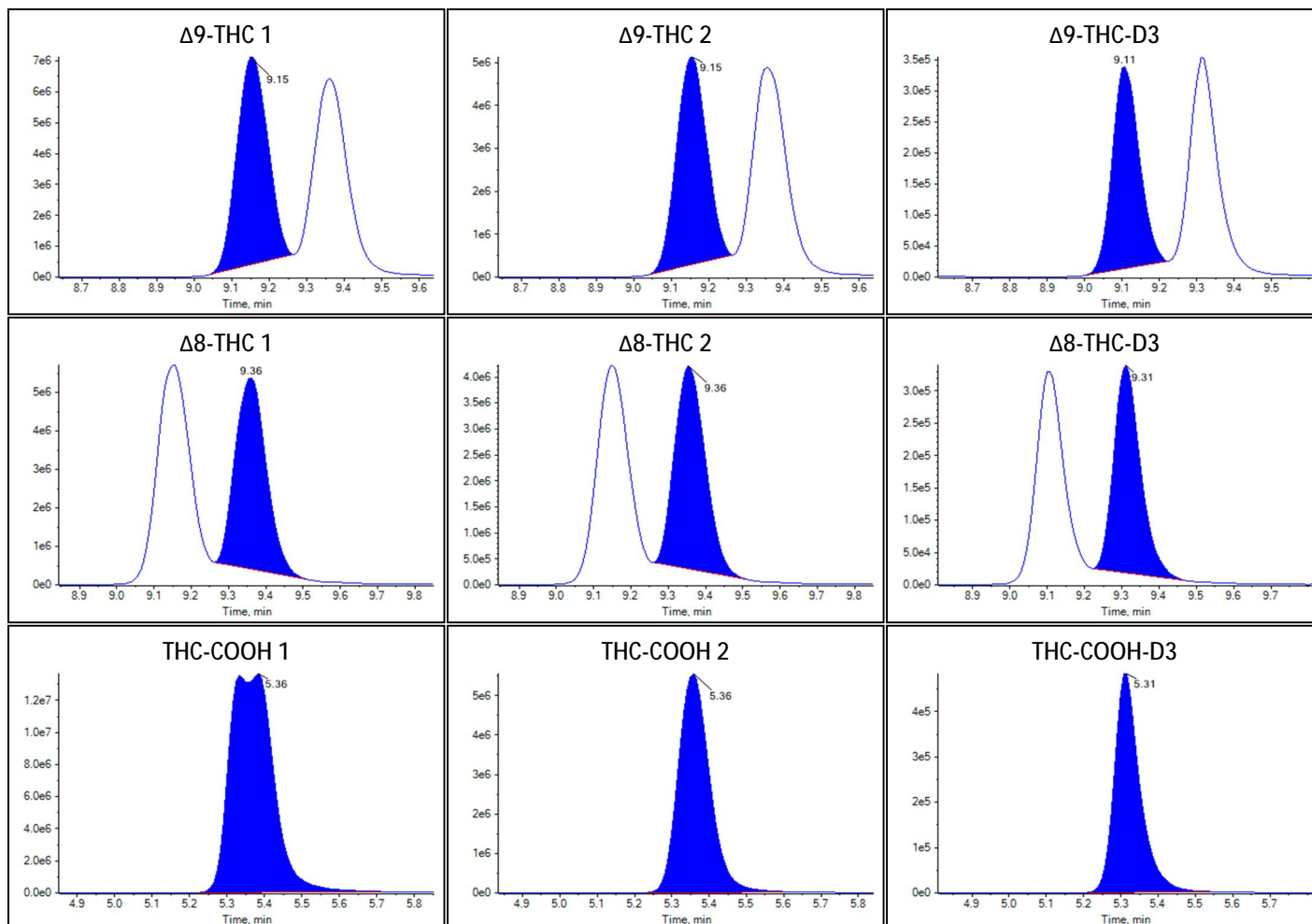
Identification Summary: 10x Standard 6 C

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.583(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.010(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.706(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.772(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.289(Fail)

Peak Review: 10x Standard 6 C



Peak Review: 10x Standard 6 C





Sample Summary

Sample Name	Negative 3
Acquisition Date/Time	2022-09-20T22:31:51
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920 SK Carryover Quant
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	57
Sample Comment	

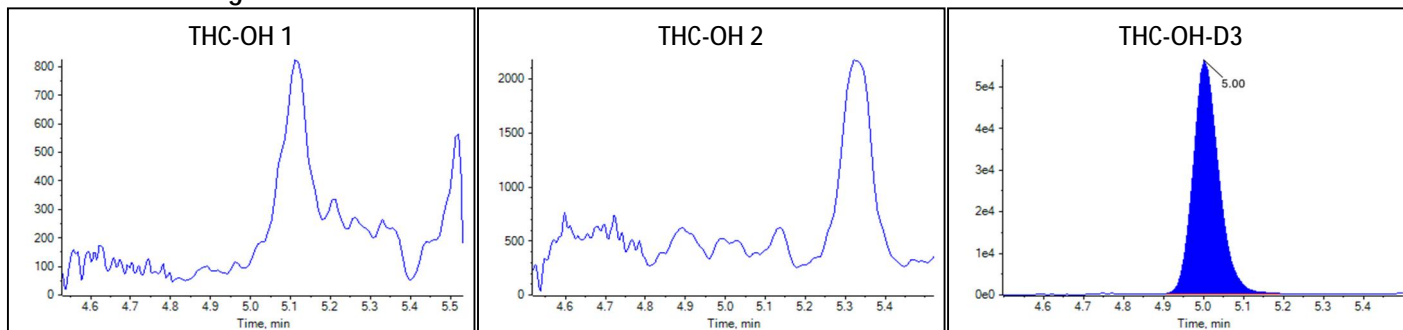
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	N/A	N/A		

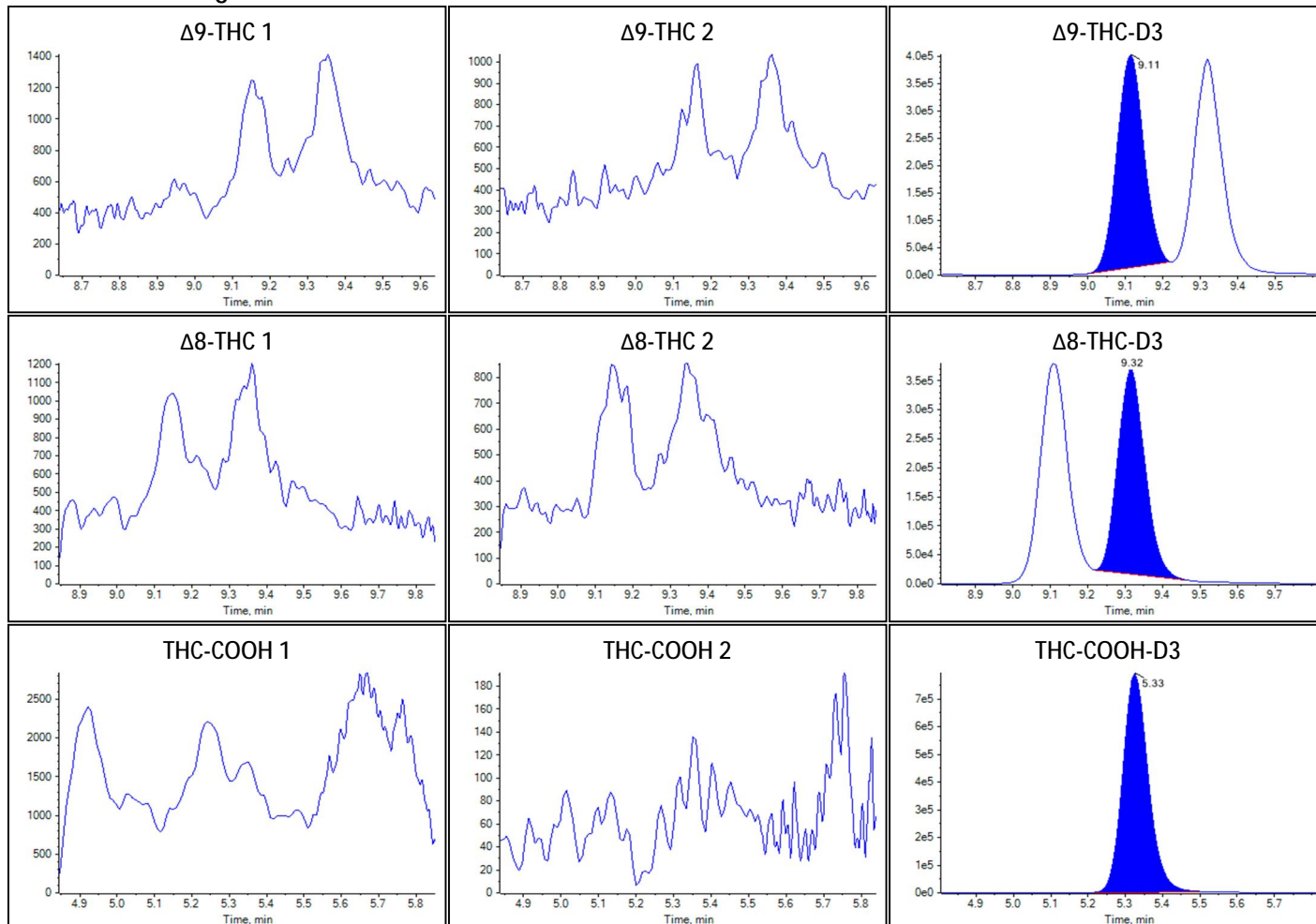
Identification Summary: Negative 3

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ^9 -THC 1	315.1 / 193.1	N/A	
Δ^9 -THC 2	315.1 / 123.0	N/A	N/A
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	N/A	
THC-COOH 2	343.0 / 191.0	N/A	N/A

Peak Review: Negative 3



Peak Review: Negative 3





Sample Summary

Sample Name	10x Standard 6 D
Acquisition Date/Time	2022-09-20T22:45:57
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920 SK Carryover Quant
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	58
Sample Comment	

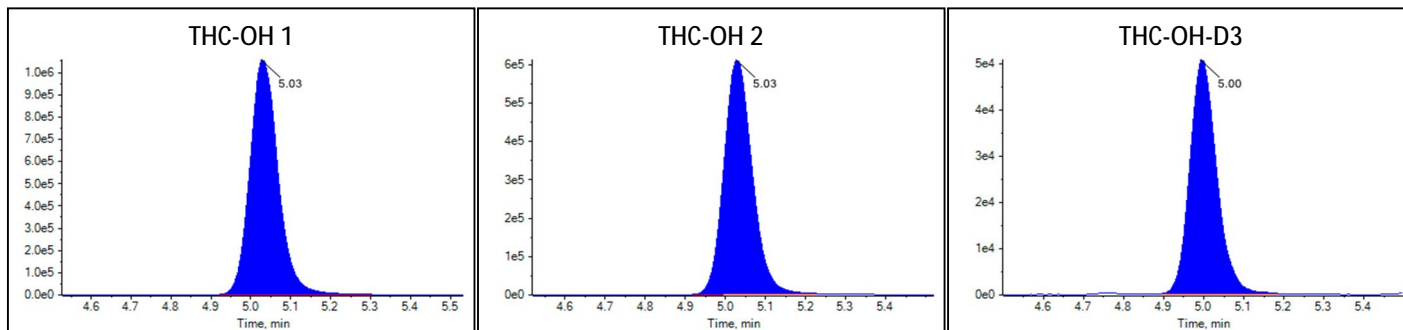
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	21.8164	190.791		
Δ^9 -THC	22.9277	no root		
Δ^8 -THC	18.0679	no root		
THC-COOH	50.2835	516.406		

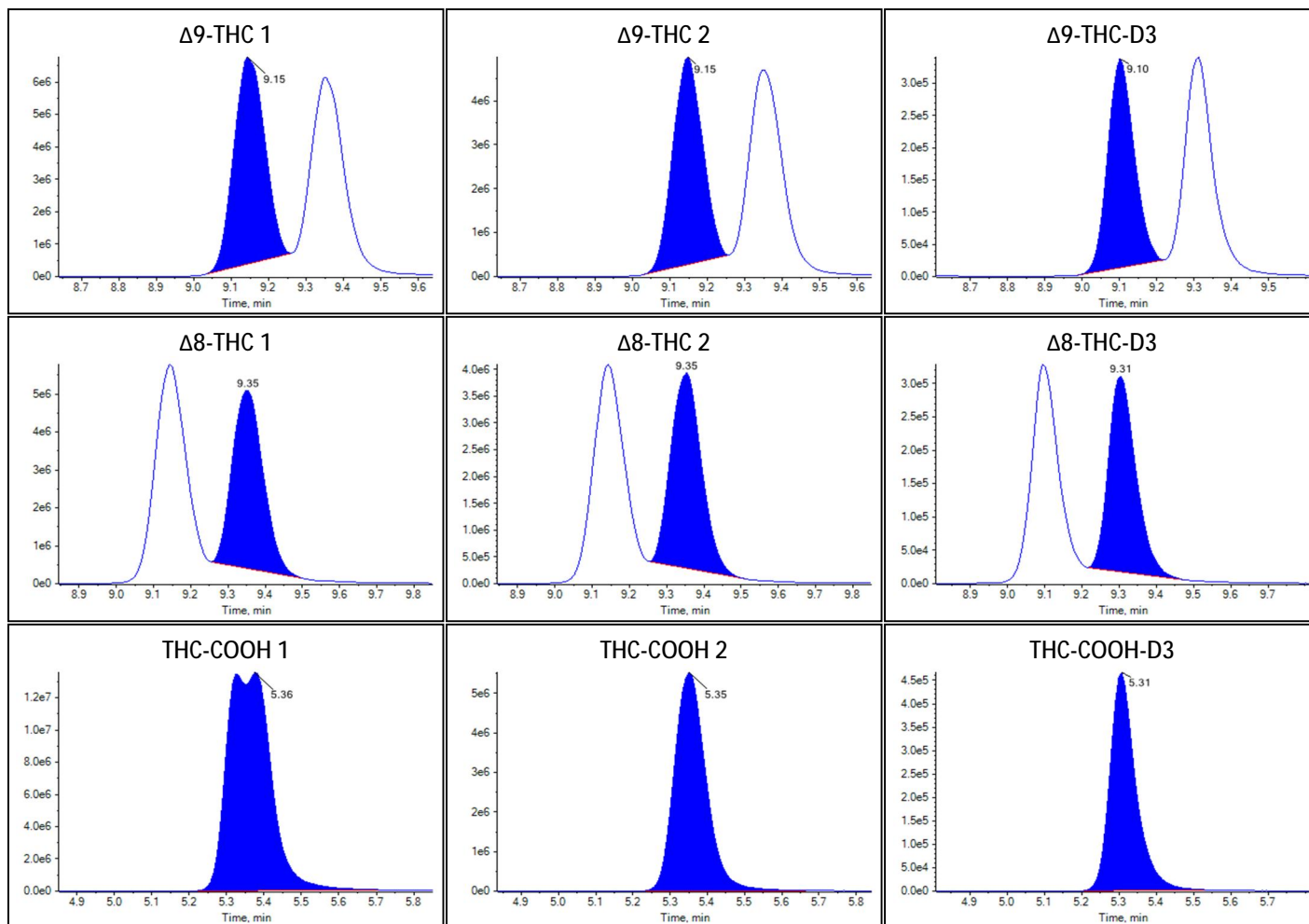
Identification Summary: 10x Standard 6 D

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.577(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.010(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.712(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.770(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.291(Fail)

Peak Review: 10x Standard 6 D



Peak Review: 10x Standard 6 D





Sample Summary

Sample Name	10x Standard 6 D
Acquisition Date/Time	2022-09-20T23:00:02
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920 SK Carryover Quant
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	58
Sample Comment	

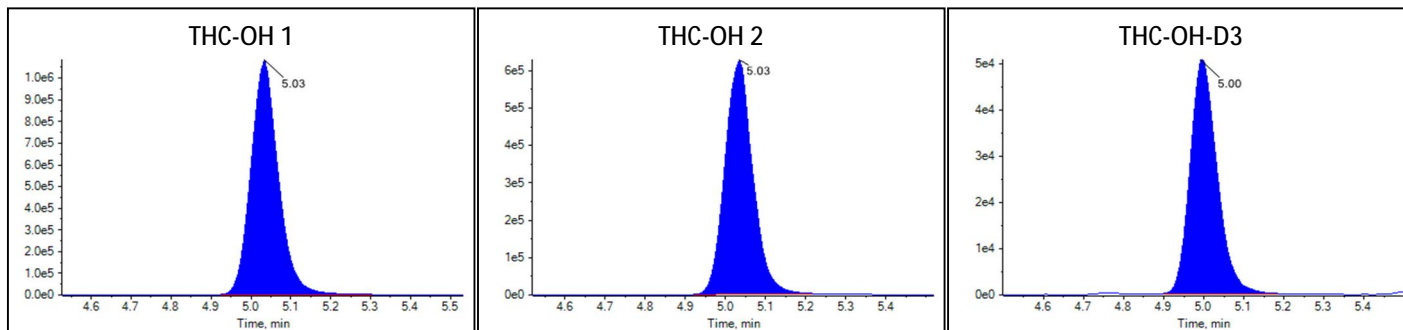
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	21.6350	189.204		
Δ^9 -THC	23.1369	no root		
Δ^8 -THC	17.6498	no root		
THC-COOH	50.1455	514.986		

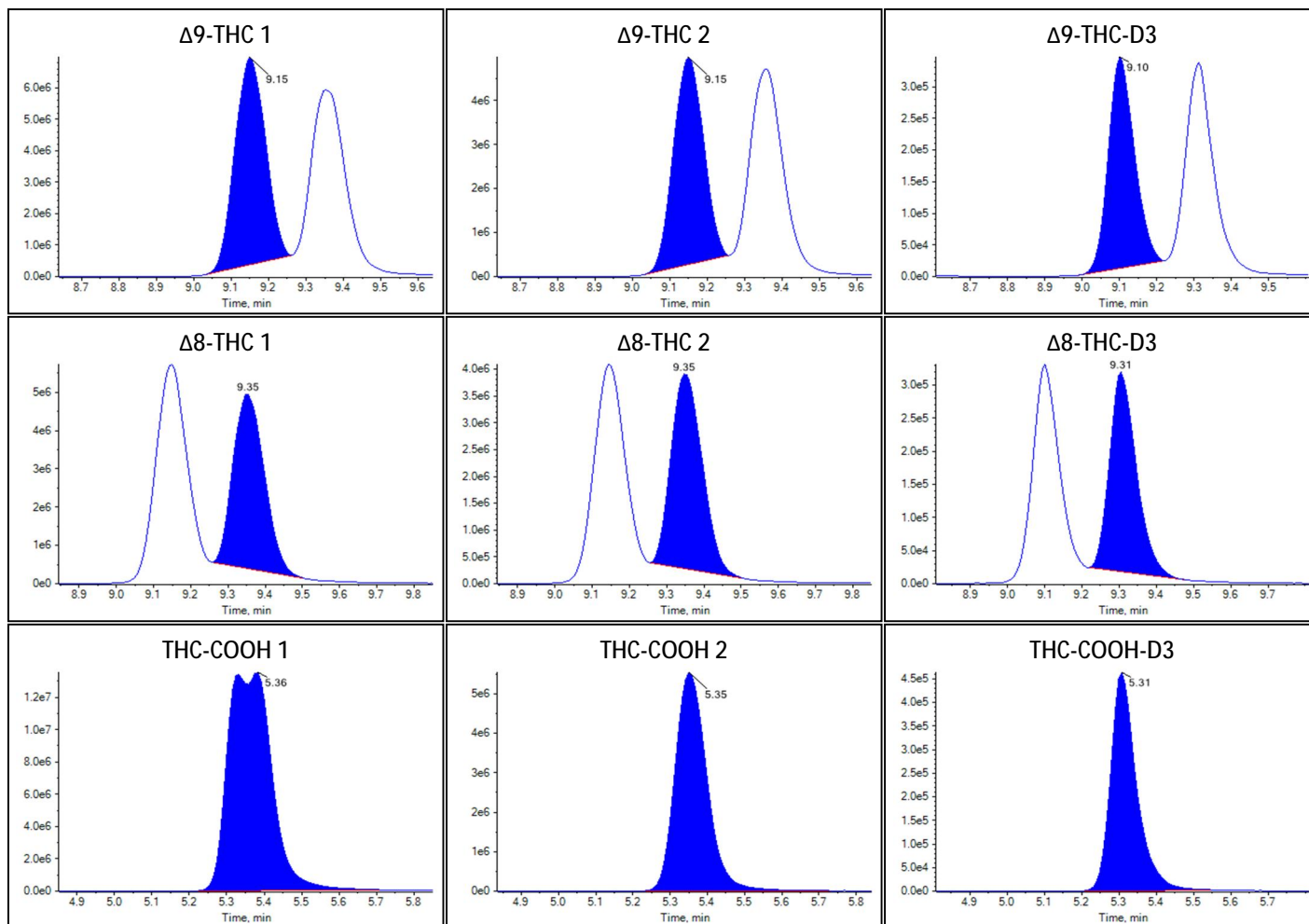
Identification Summary: 10x Standard 6 D

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.586(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.010(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.010(Pass)	0.702(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.793(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.292(Fail)

Peak Review: 10x Standard 6 D



Peak Review: 10x Standard 6 D





Sample Summary

Sample Name	10x Standard 6 D
Acquisition Date/Time	2022-09-20T23:14:07
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920 SK Carryover Quant
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	58
Sample Comment	

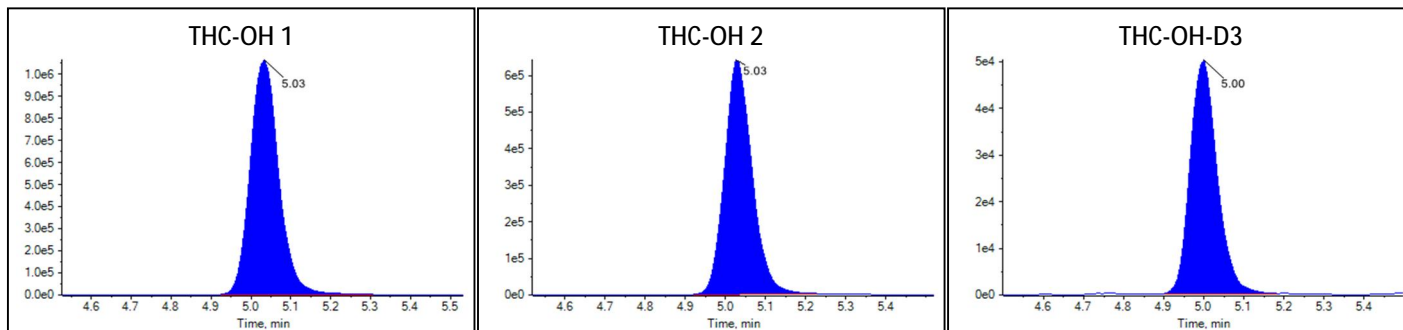
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	22.5454	197.170		
Δ^9 -THC	23.4147	no root		
Δ^8 -THC	17.6455	no root		
THC-COOH	49.4440	507.768		

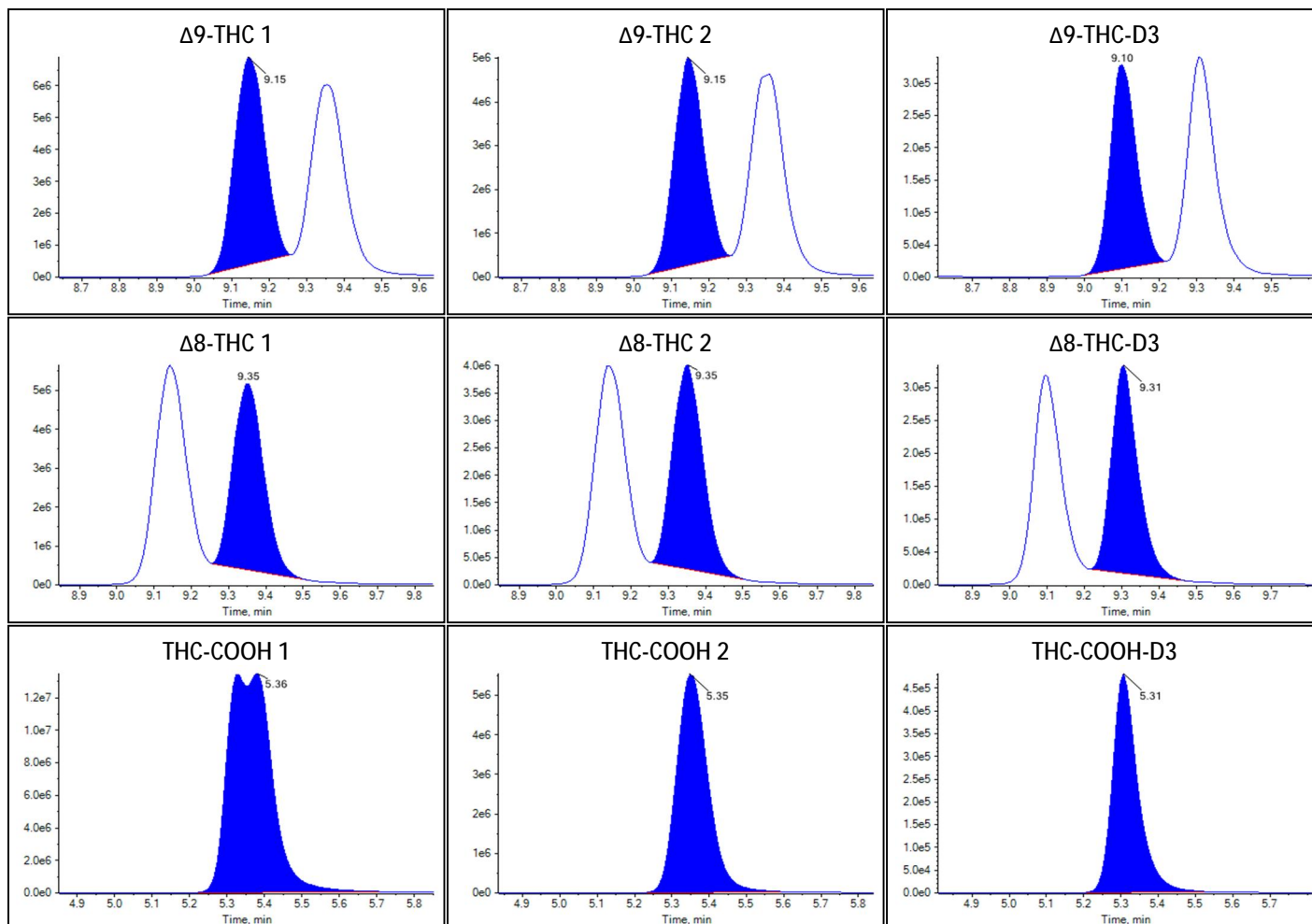
Identification Summary: 10x Standard 6 D

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.578(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.701(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.769(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.289(Fail)

Peak Review: 10x Standard 6 D



Peak Review: 10x Standard 6 D





Sample Summary

Sample Name	10x Standard 6 E
Acquisition Date/Time	2022-09-20T23:28:13
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920 SK Carryover Quant
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	59
Sample Comment	

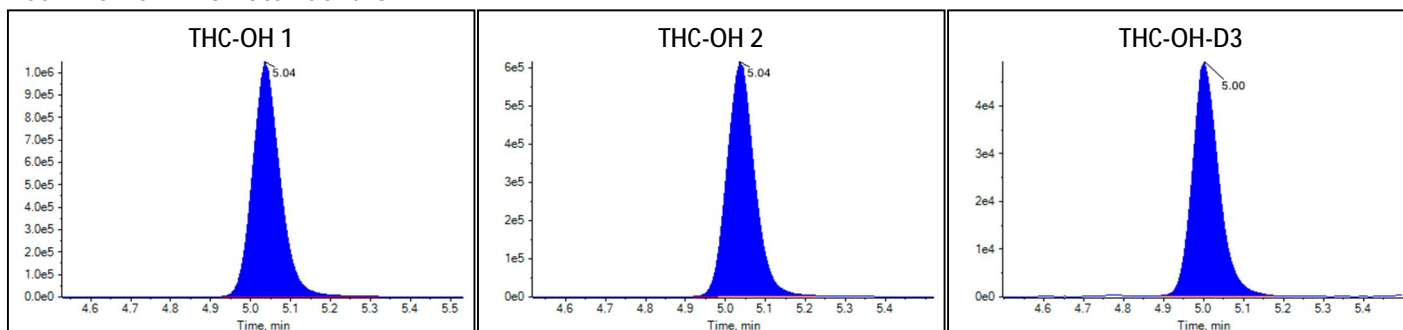
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	22.2074	194.213		
Δ^9 -THC	23.8791	no root		
Δ^8 -THC	18.4668	no root		
THC-COOH	51.1281	525.097		

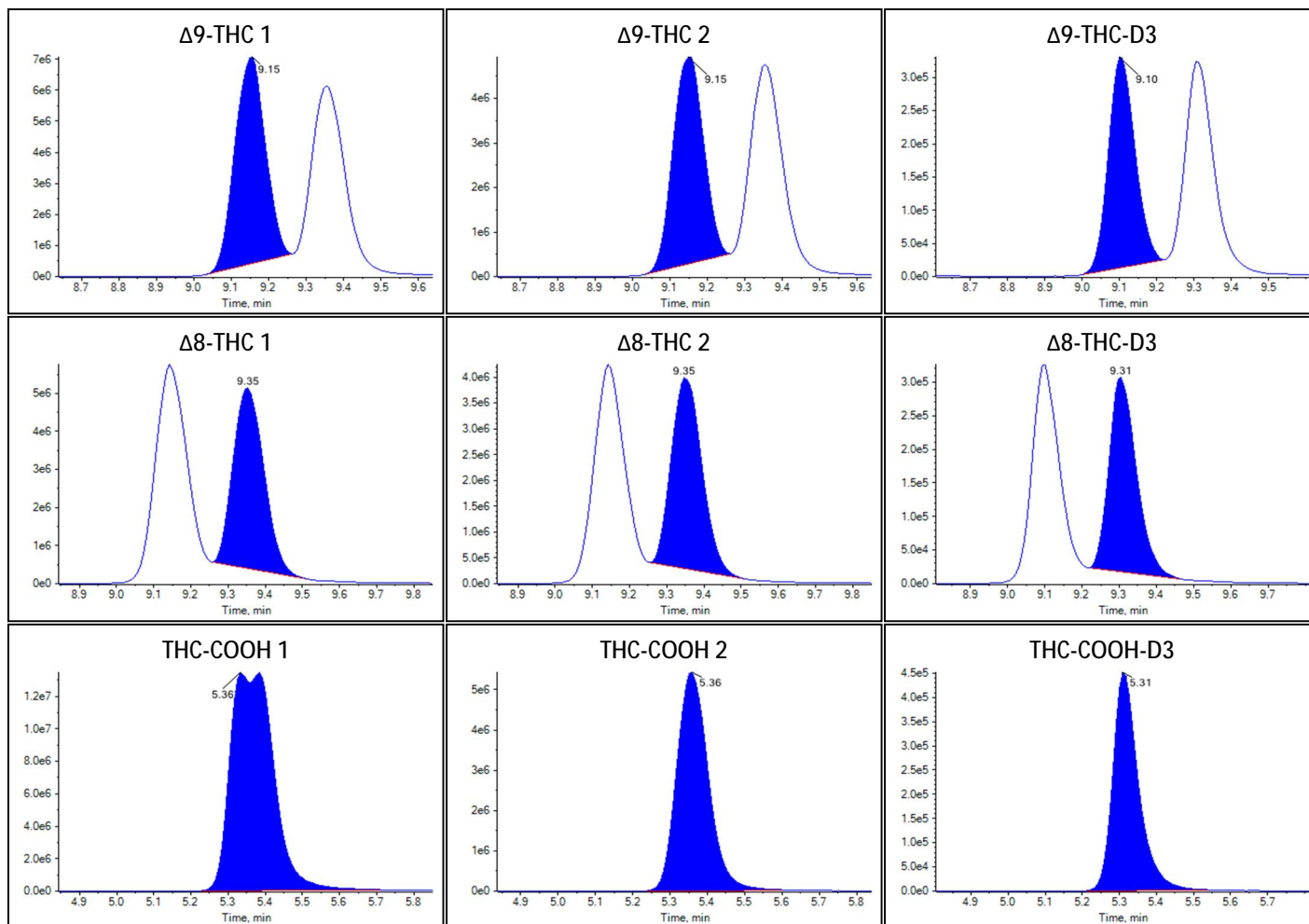
Identification Summary: 10x Standard 6 E

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.592(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.704(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.010(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.775(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.288(Fail)

Peak Review: 10x Standard 6 E



Peak Review: 10x Standard 6 E





Sample Summary

Sample Name	10x Standard 6 E
Acquisition Date/Time	2022-09-20T23:42:18
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920 SK Carryover Quant
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	59
Sample Comment	

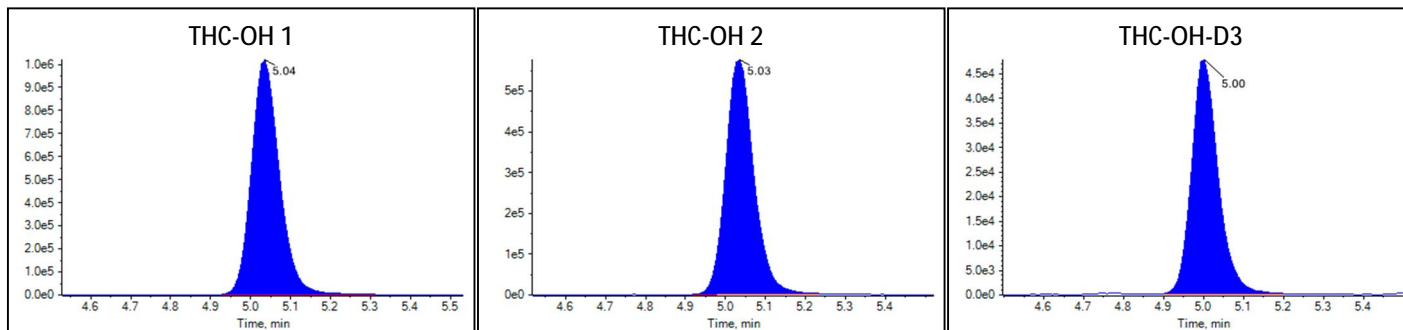
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	22.5507	197.217		
Δ^9 -THC	24.1019	no root		
Δ^8 -THC	18.4534	no root		
THC-COOH	50.4667	518.291		

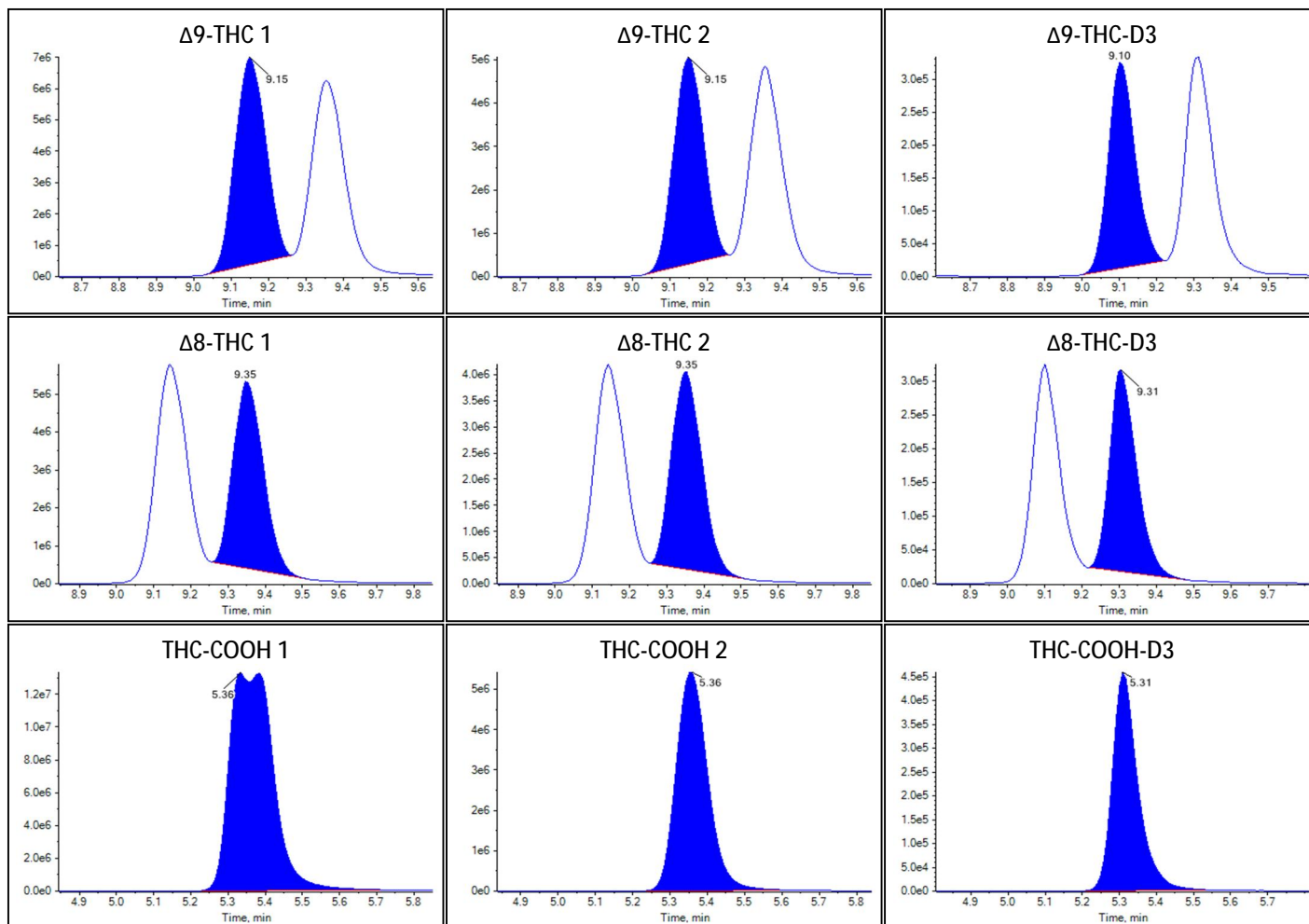
Identification Summary: 10x Standard 6 E

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.569(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.010(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.010(Pass)	0.702(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.774(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.289(Fail)

Peak Review: 10x Standard 6 E



Peak Review: 10x Standard 6 E





Sample Summary

Sample Name	Negative 4
Acquisition Date/Time	2022-09-20T23:56:24
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920 SK Carryover Quant
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	60
Sample Comment	

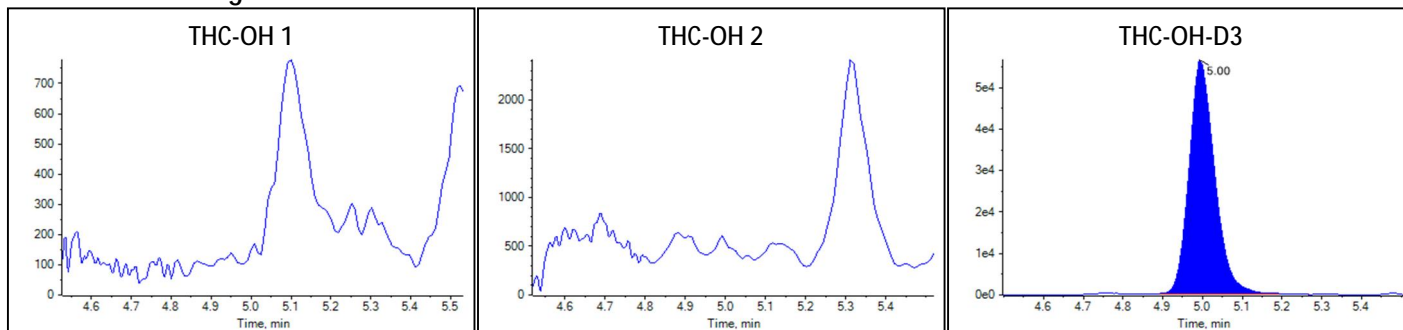
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	N/A	N/A		

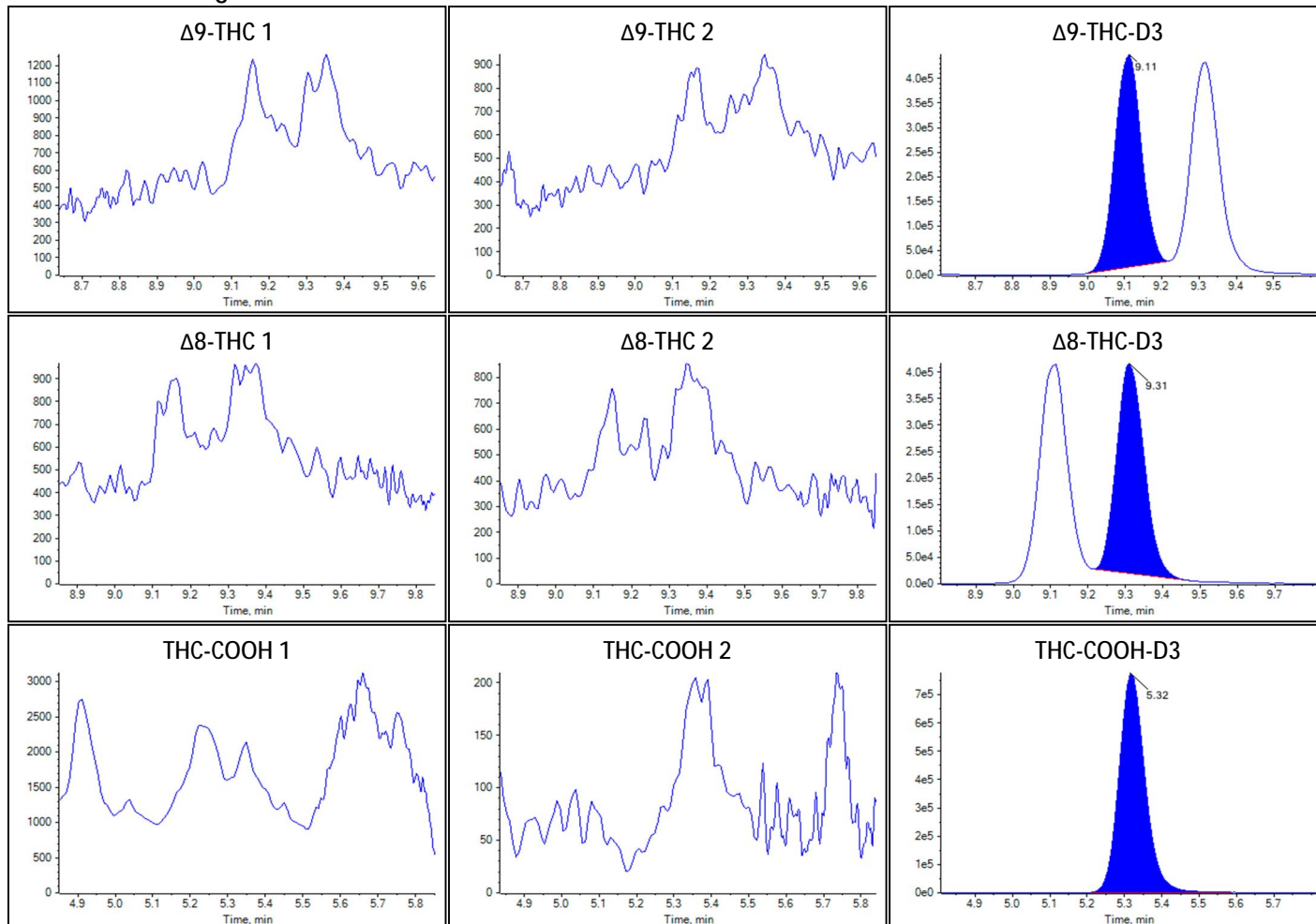
Identification Summary: Negative 4

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ^9 -THC 1	315.1 / 193.1	N/A	
Δ^9 -THC 2	315.1 / 123.0	N/A	N/A
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	N/A	
THC-COOH 2	343.0 / 191.0	N/A	N/A

Peak Review: Negative 4



Peak Review: Negative 4





Sample Summary

Sample Name	Blank1
Acquisition Date/Time	2022-09-21T00:10:29
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920 SK Carryover Quant
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	105
Sample Comment	

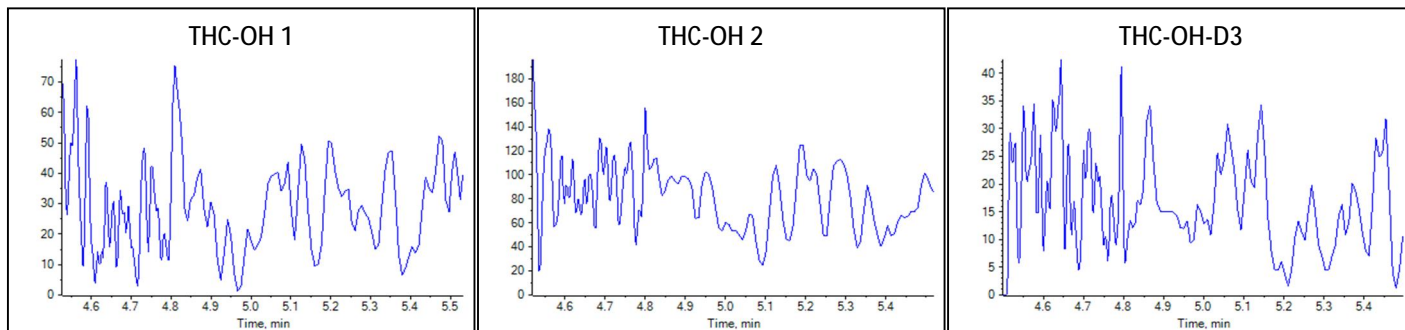
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	N/A	N/A		

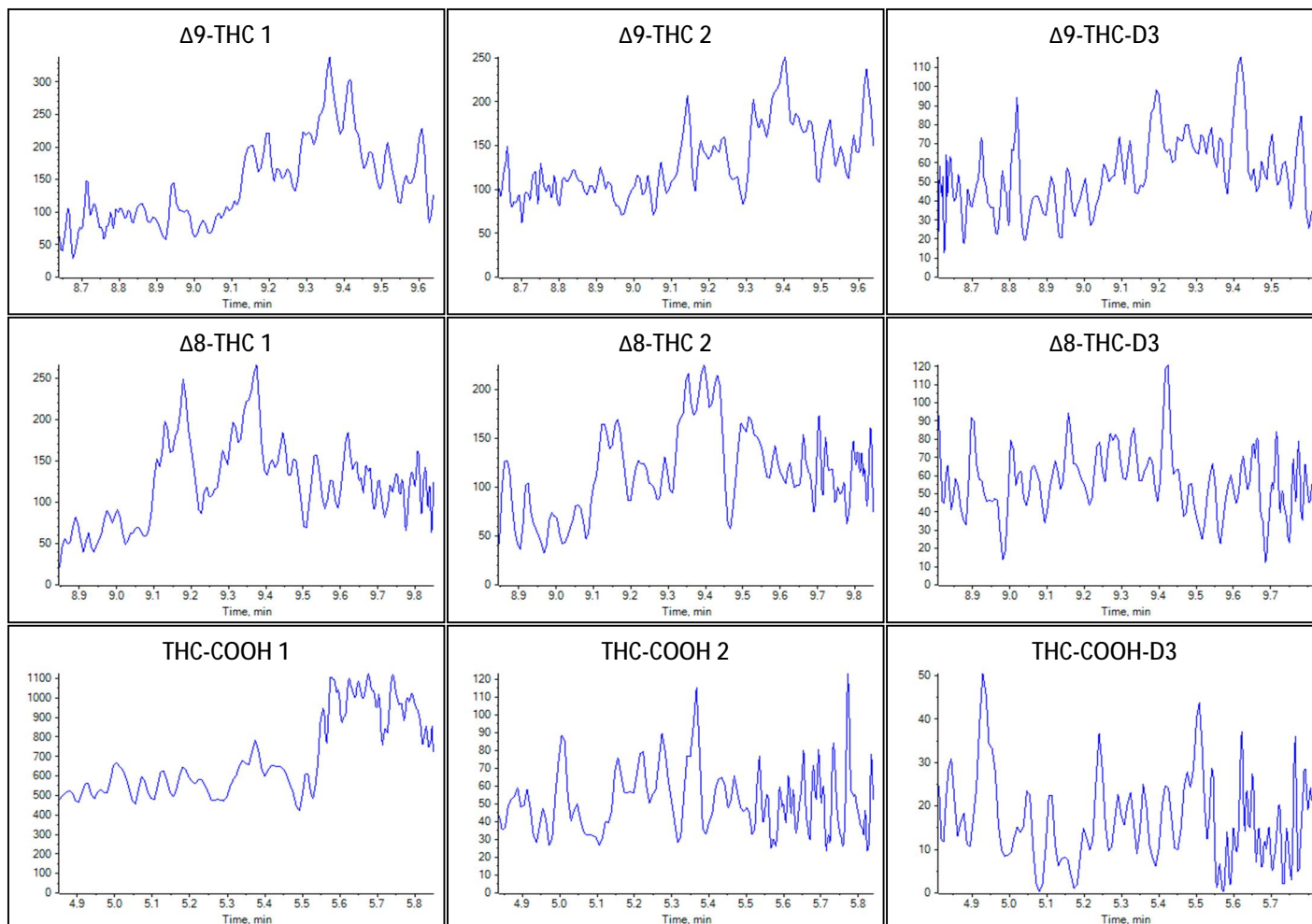
Identification Summary: Blank1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ^9 -THC 1	315.1 / 193.1	N/A	
Δ^9 -THC 2	315.1 / 123.0	N/A	N/A
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	N/A	
THC-COOH 2	343.0 / 191.0	N/A	N/A

Peak Review: Blank1



Peak Review: Blank1





Sample Summary

Sample Name	Blank2
Acquisition Date/Time	2022-09-21T00:24:35
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920 SK Carryover Quant
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	105
Sample Comment	

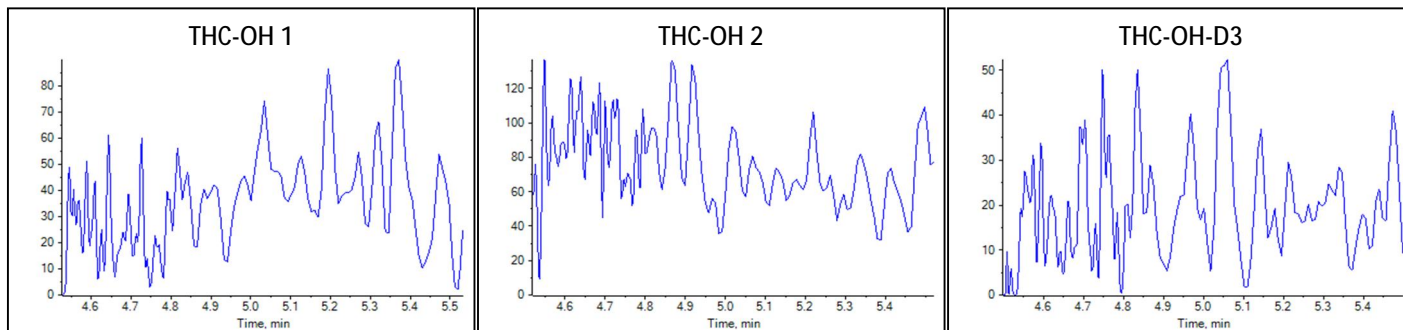
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	N/A	N/A		

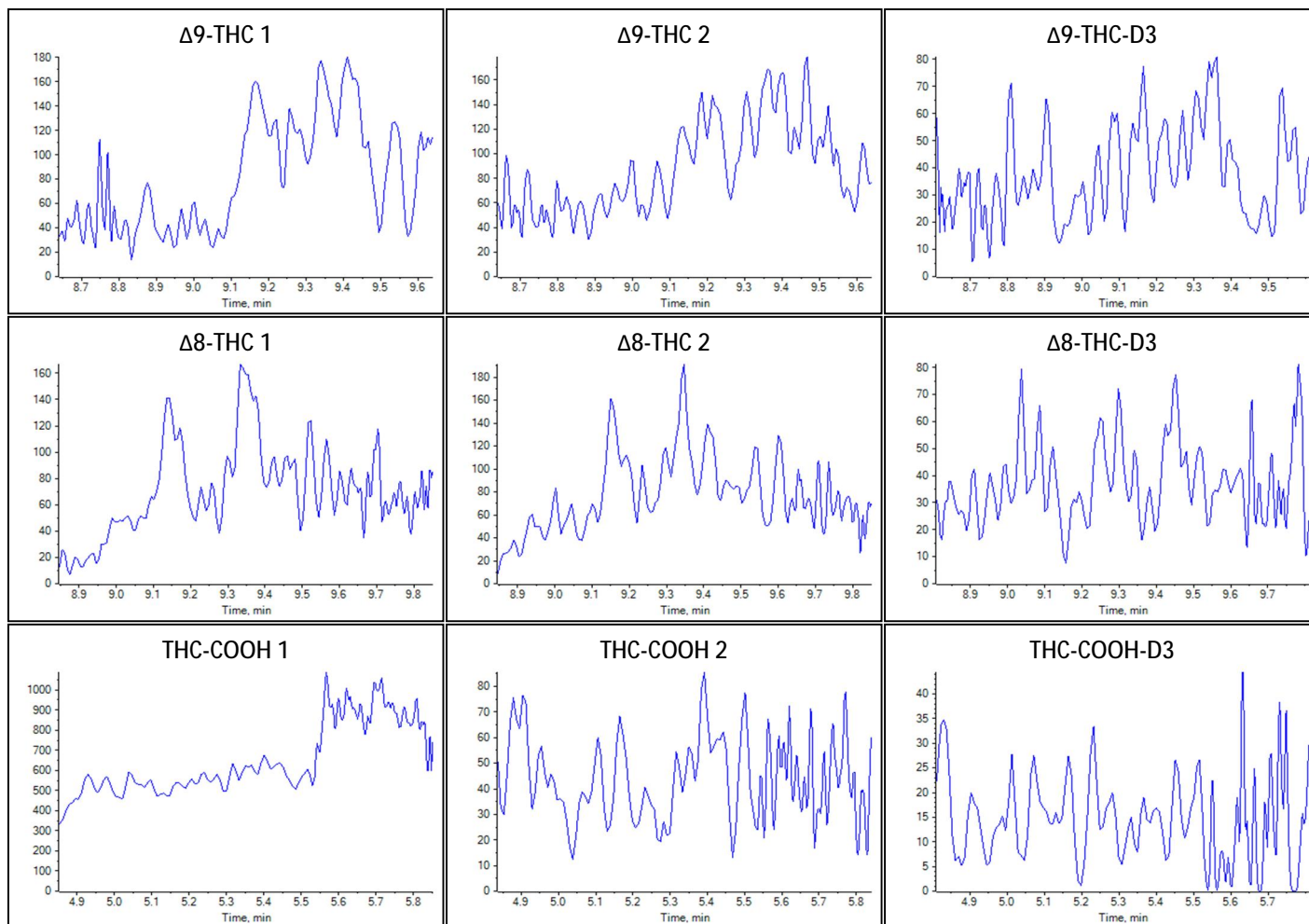
Identification Summary: Blank2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ^9 -THC 1	315.1 / 193.1	N/A	
Δ^9 -THC 2	315.1 / 123.0	N/A	N/A
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	N/A	
THC-COOH 2	343.0 / 191.0	N/A	N/A

Peak Review: Blank2



Peak Review: Blank2



MATRIX INTERFERENCE

Cannabinoid Lot Log	
Date	09-14-22
Analyst	JLG
Checked tubes	N/A
Sample preparation	
Sample Pipette	007
Blank Blood	FU
Standards	09-14-22 JLG
Controls	09-14-22 JLG
Standards/Controls Pipette	064
Internal Standard	09-14-22 SB
Internal Standard Pipette	103
0.1 % formic acid in H ₂ O	08-29-22 SB
Extraction	
SLE Cartridge	22061206CA
MTBE	L322A-2
B: 0.1% formic acid in ACN	08-29-22 SB
A: 0.1 % formic acid in H ₂ O	08-15-22 JA
Instrumentation	
A: 0.1 % formic acid in H ₂ O	09-01-22 HK
B: 0.1% formic acid in ACN	09-12-22 SB
Column Serial Number	USC6C17438
Instrument	21-1
Sequence Check:	
Notes: Bias + Precision Matrix Negative: FU	

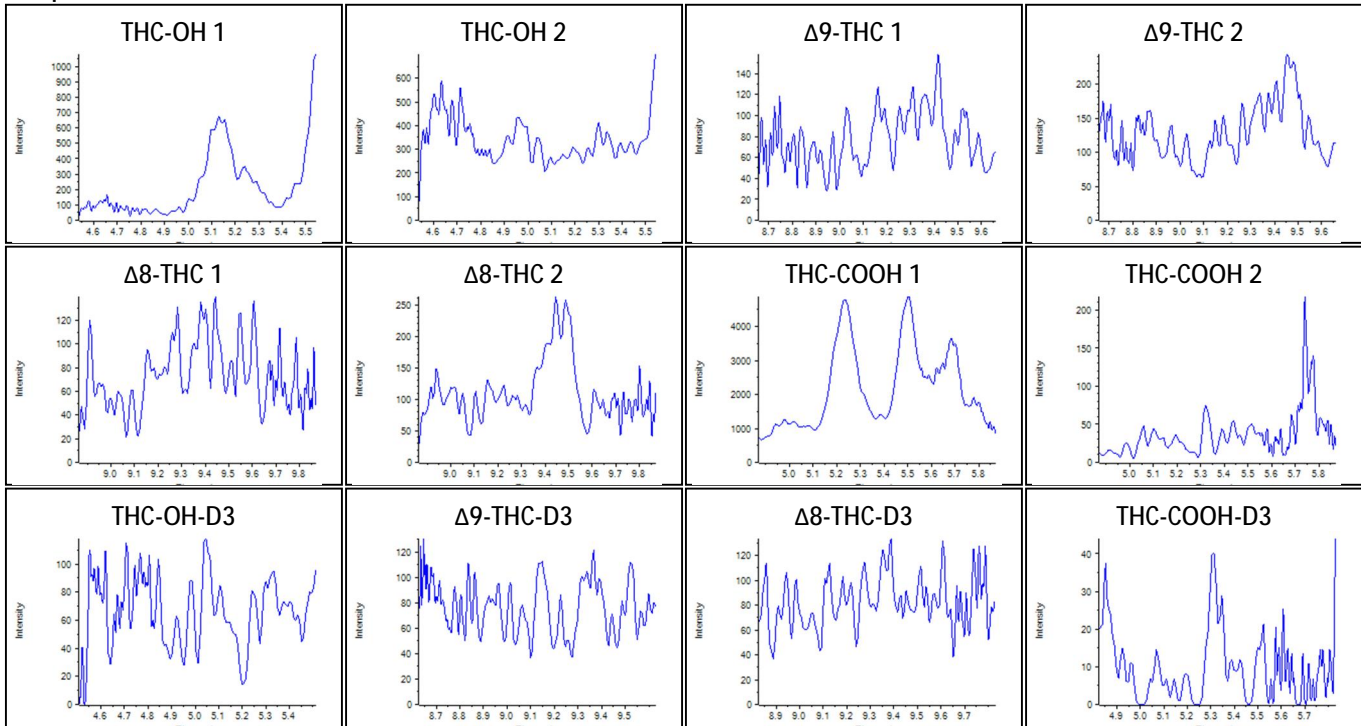
Cannabinoid Lot Log	
Date	091422
Analyst	SB
Checked tubes	N/A
Sample preparation	
Sample Pipette	007
Blank Blood	FR3
Standards	091422 JLG
Controls	091422 JLG
Standards/Controls Pipette	064
Internal Standard	091422 SB
Internal Standard Pipette	103
0.1 % formic acid in H ₂ O	082922 SB
Extraction	
SLE Cartridge	820-2-06
MTBE	L322A-2
B: 0.1% formic acid in ACN	082922 SB
A: 0.1 % formic acid in H ₂ O	081522 JA
Instrumentation	
A: 0.1 % formic acid in H ₂ O	090122 HK
B: 0.1% formic acid in ACN	091222 SB
Column Serial Number	21-1
Instrument	USCGC17438
Sequence Check:	
Notes: Bias/Precision Matrix Effect FR	

Cannabinoid Lot Log	
Date	9-14-22
Analyst	TSF
Checked tubes	
Sample preparation	
Sample Pipette	007
Blank Blood	FT
Standards	9-14-22 JG
Controls	9-14-22 JG
Standards/Controls Pipette	064
Internal Standard	9-14-22 SB
Internal Standard Pipette	103
0.1 % formic acid in H ₂ O	8-29-22 SB
Extraction	
SLE Cartridge	820-2-06
MTBE	L322A-2
B: 0.1% formic acid in ACN	8-29-22 SB
A: 0.1 % formic acid in H ₂ O	8-15-22 JA
Instrumentation	
A: 0.1 % formic acid in H ₂ O	9-1-22 HK
B: 0.1% formic acid in ACN	9-12-22 SB
Column Serial Number	USCGC17438
Instrument	21-1
Sequence Check:	
Notes: Bias + Precision + Mat Neg for FT	

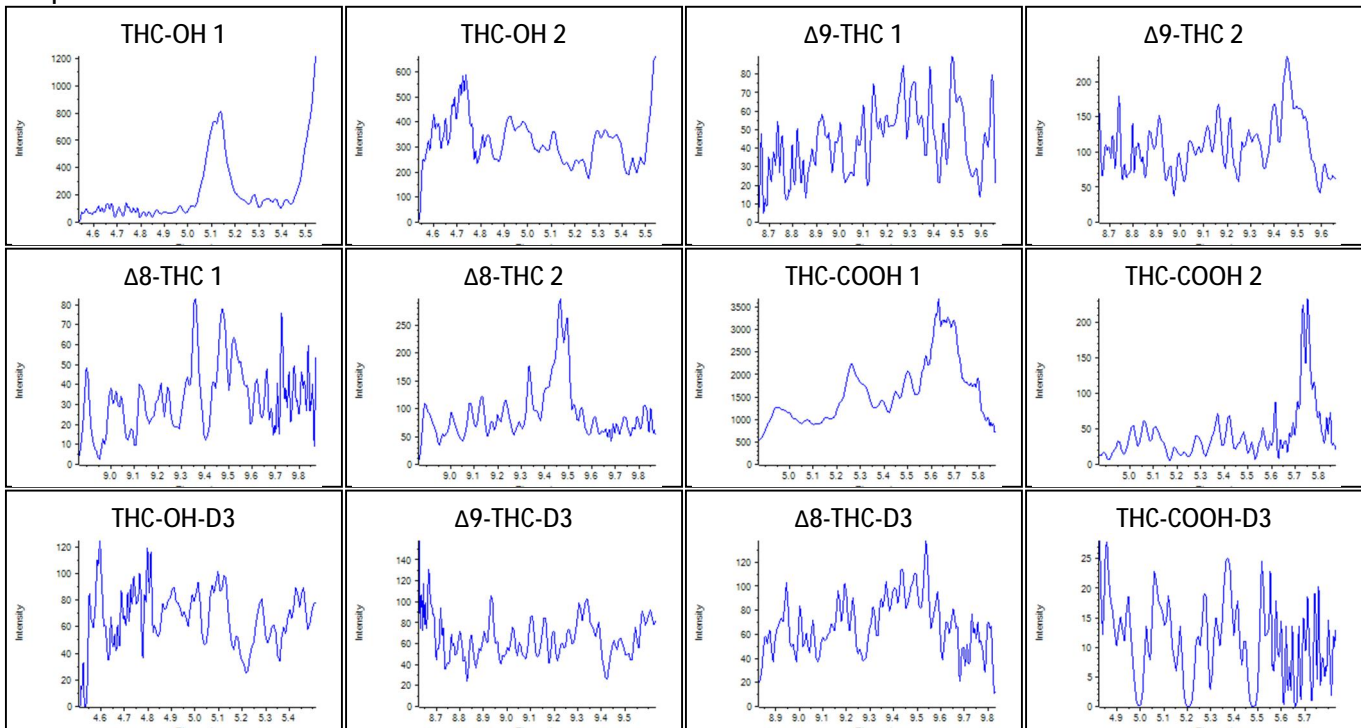
Cannabinoid Lot Log	
Date	9-15-22
Analyst	SM
Checked tubes	Bias + Precision
Sample preparation	
Sample Pipette	007
Blank Blood	FW1
Standards	9-14-22 JLG
Controls	9-14-22 JLG
Standards/Controls Pipette	064
Internal Standard	9-14-22 SB
Internal Standard Pipette	103
0.1 % formic acid in H ₂ O	8-29-22 SB
Extraction	
SLE Cartridge	220617CGCA
MTBE	L322A-2+3
B: 0.1% formic acid in ACN	8-29-22 SB
A: 0.1 % formic acid in H ₂ O	8-15-22 JA
Instrumentation	
A: 0.1 % formic acid in H ₂ O	9-1-22 HK
B: 0.1% formic acid in ACN	9-12-22 SB
Column Serial Number	USCGC17438
Instrument	21-1
Sequence Check:	
Notes: Bias + Precision Matrix negatives: FW, GA, GB, GF	

Cannabinoid Lot Log	
Date	9-15-22
Analyst	LA
Checked tubes	
Sample preparation	
Sample Pipette	7
Blank Blood	FX1
Standards	9-14-22 JLG
Controls	9-14-22 JLG
Standards/Controls Pipette	64
Internal Standard	9-14-22 SB
Internal Standard Pipette	103
0.1 % formic acid in H ₂ O	8-29-22 SB
Extraction	
SLE Cartridge	820-2-06
MTBE	L322A-3
B: 0.1% formic acid in ACN	8-29-22 SB
A: 0.1 % formic acid in H ₂ O	8-15-22 JA
Instrumentation	
A: 0.1 % formic acid in H ₂ O	9-1-22 HK
B: 0.1% formic acid in ACN	9-12-22 SB
Column Serial Number	USCGC 17438
Instrument	21-1
Sequence Check:	
Notes: BIAS AND PRECISION Matrix Negative FX	

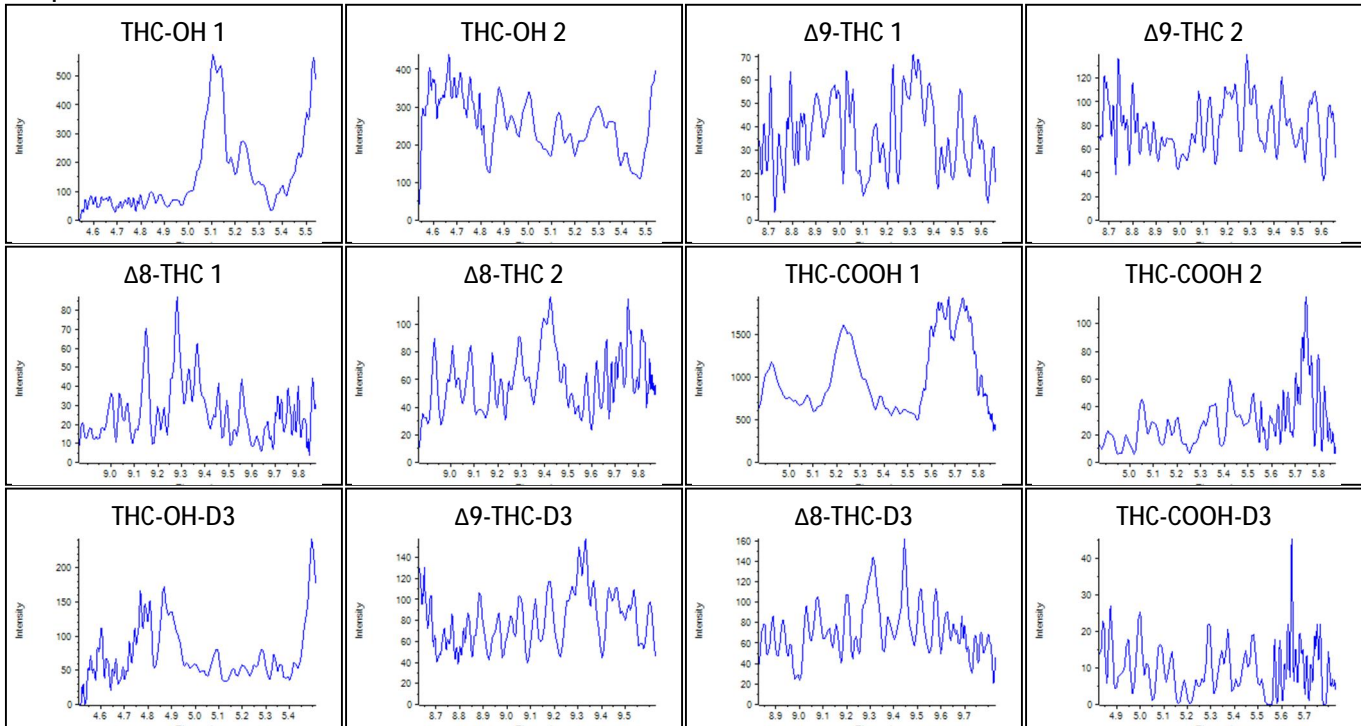
Sample Name: GD



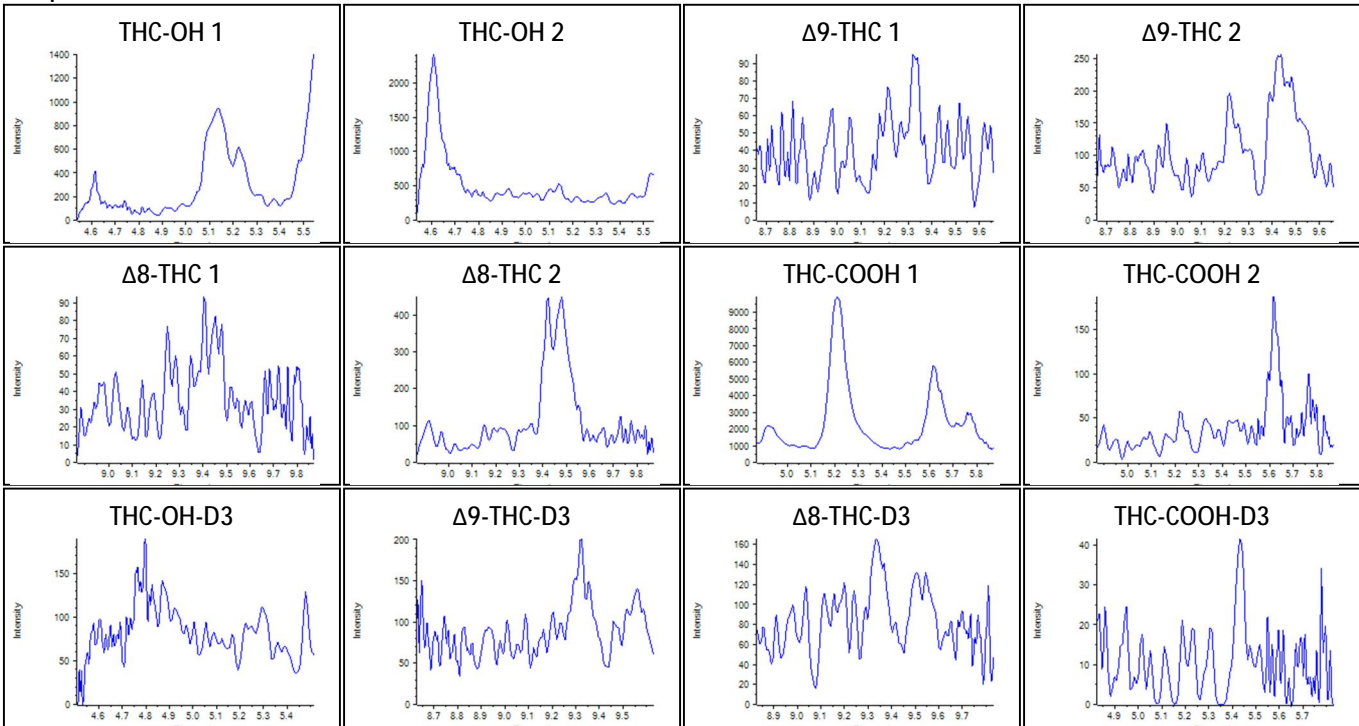
Sample Name: GE



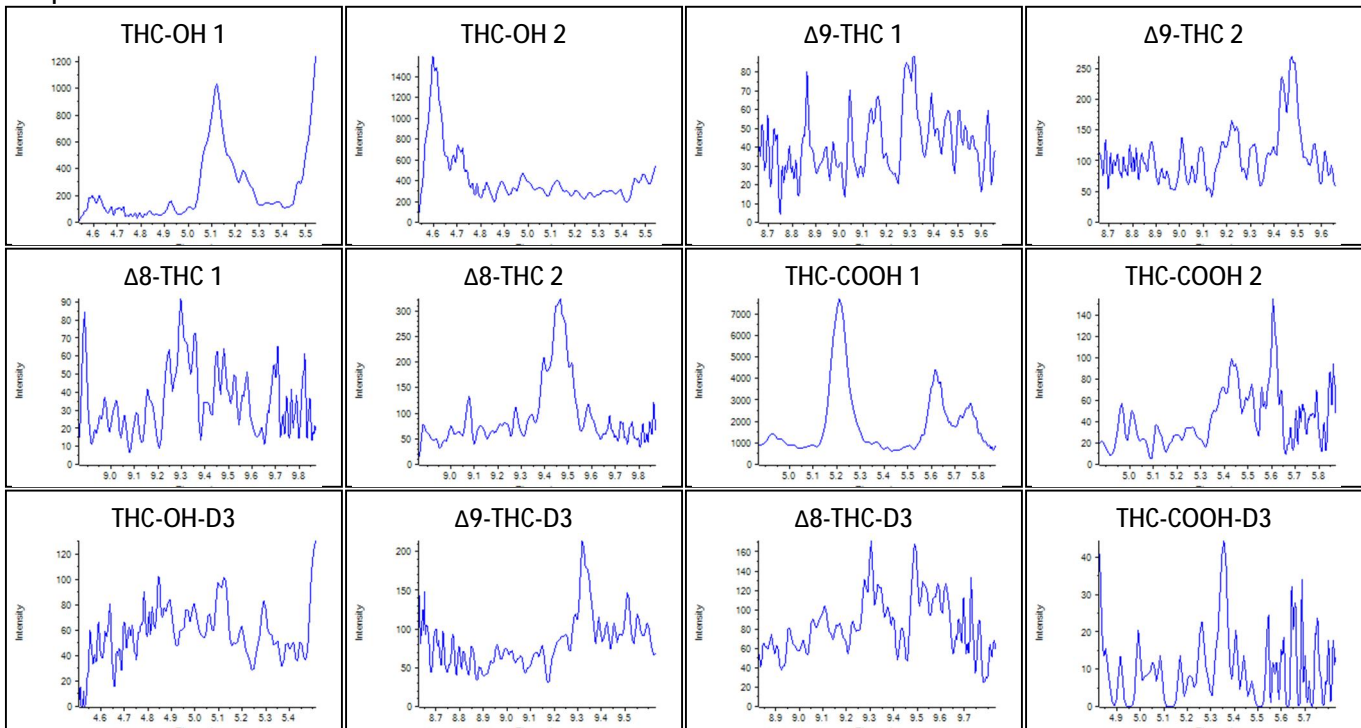
Sample Name: FR



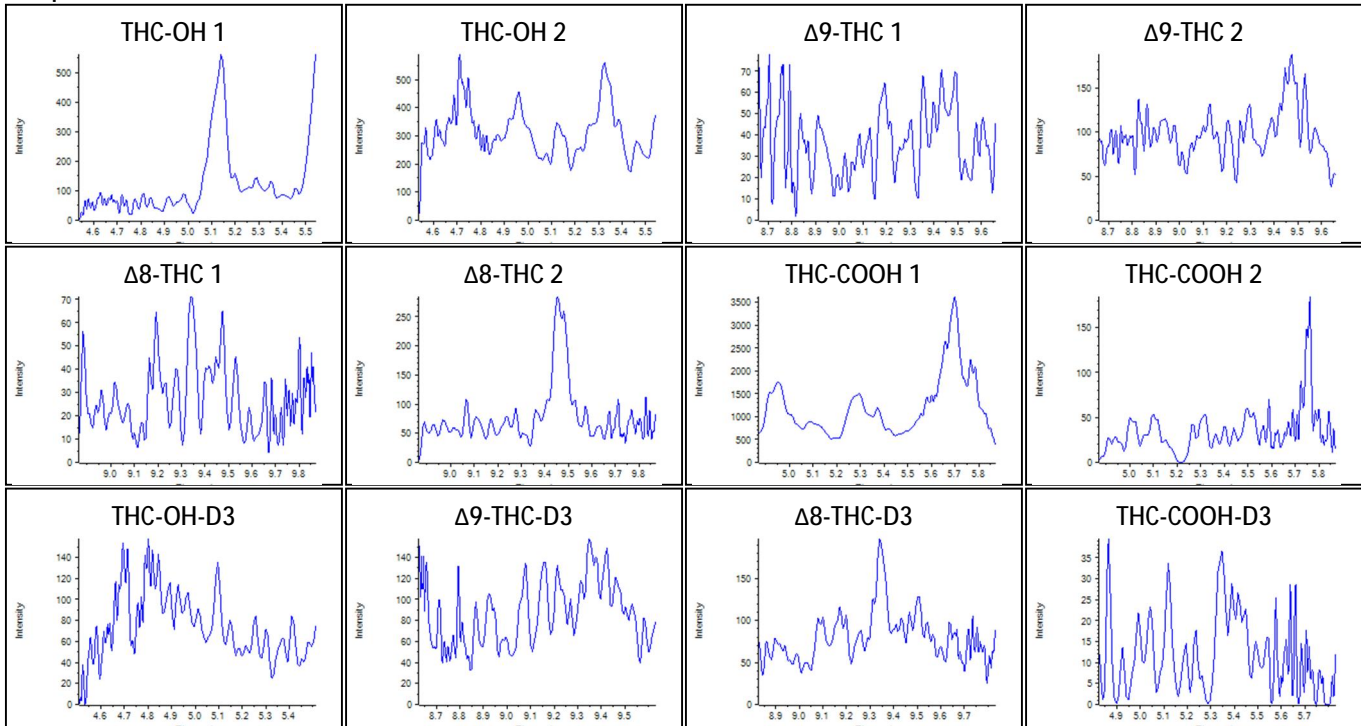
Sample Name: FT



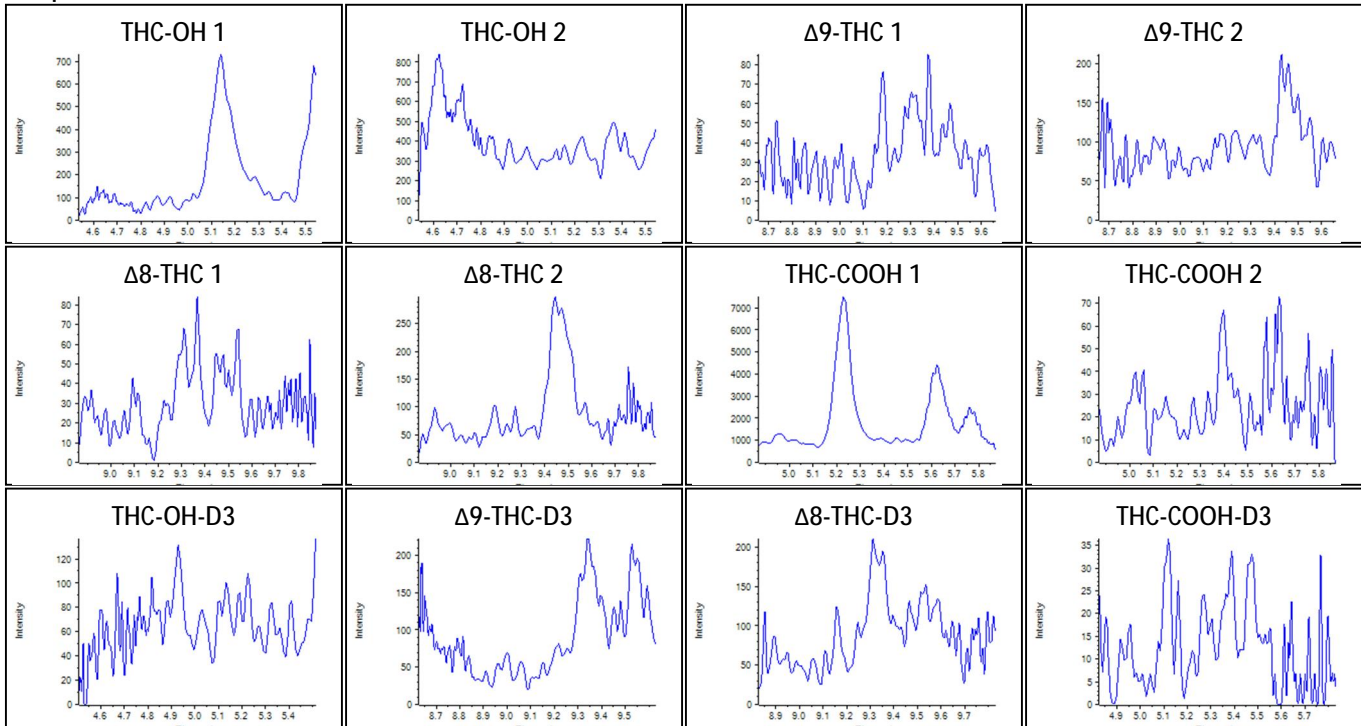
Sample Name: FU



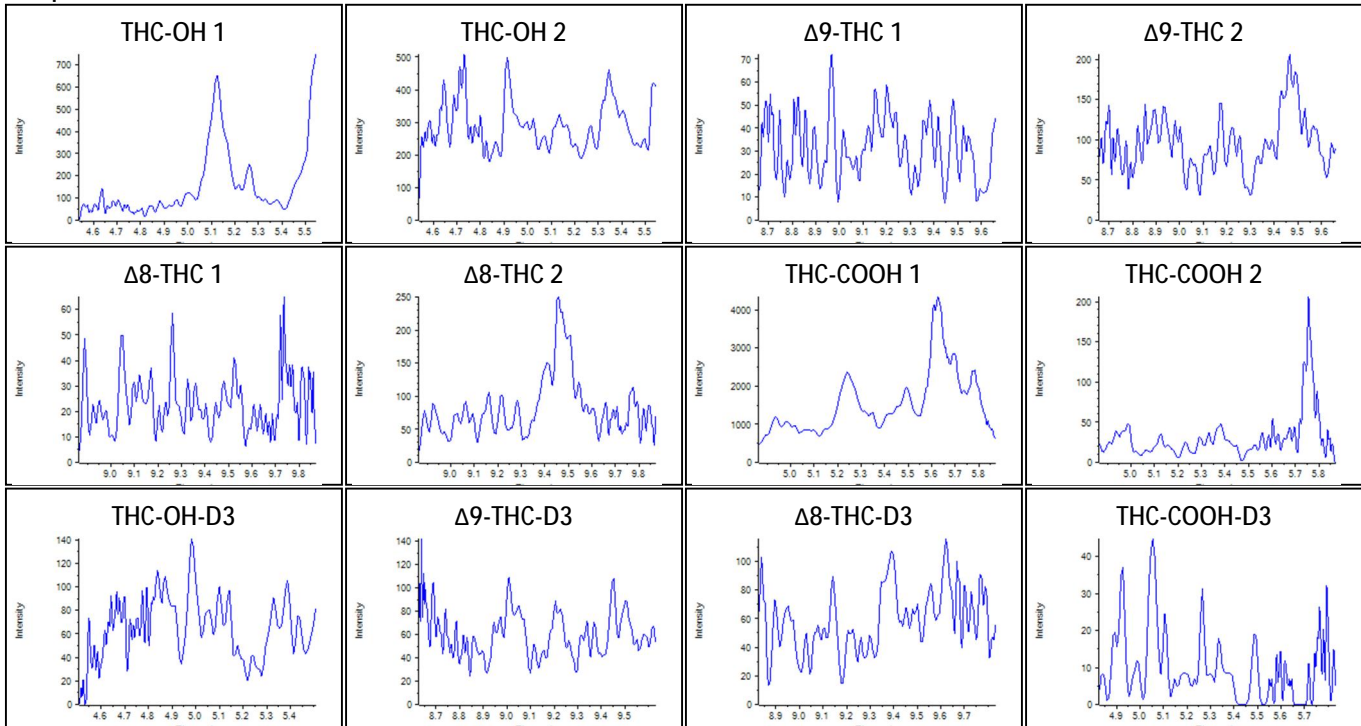
Sample Name: FW



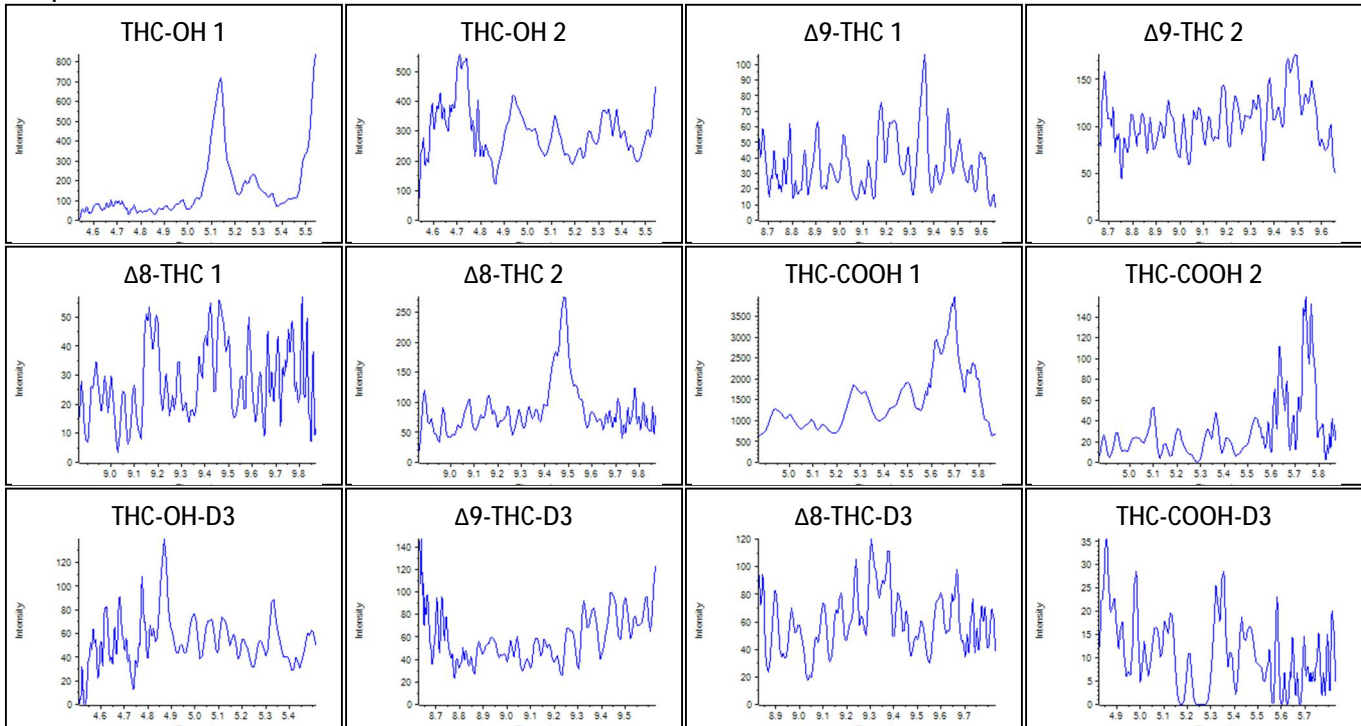
Sample Name: GA



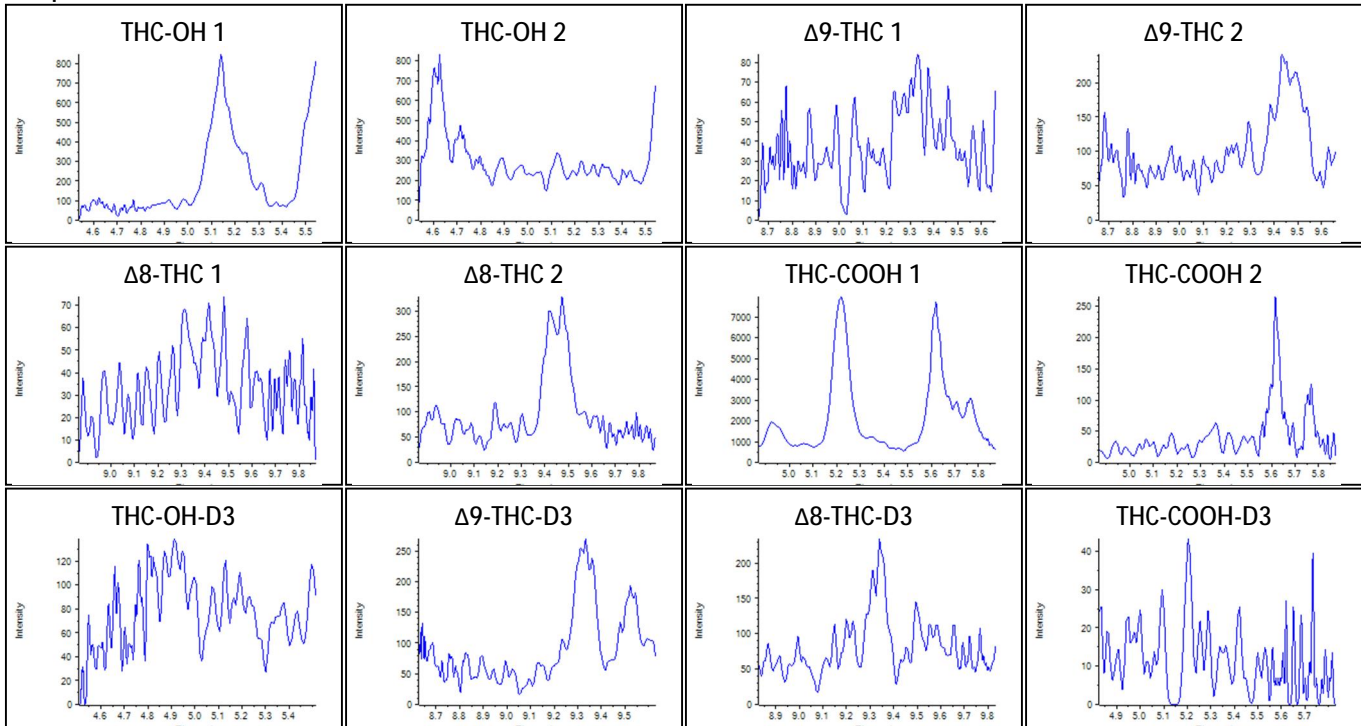
Sample Name: GB



Sample Name: GF



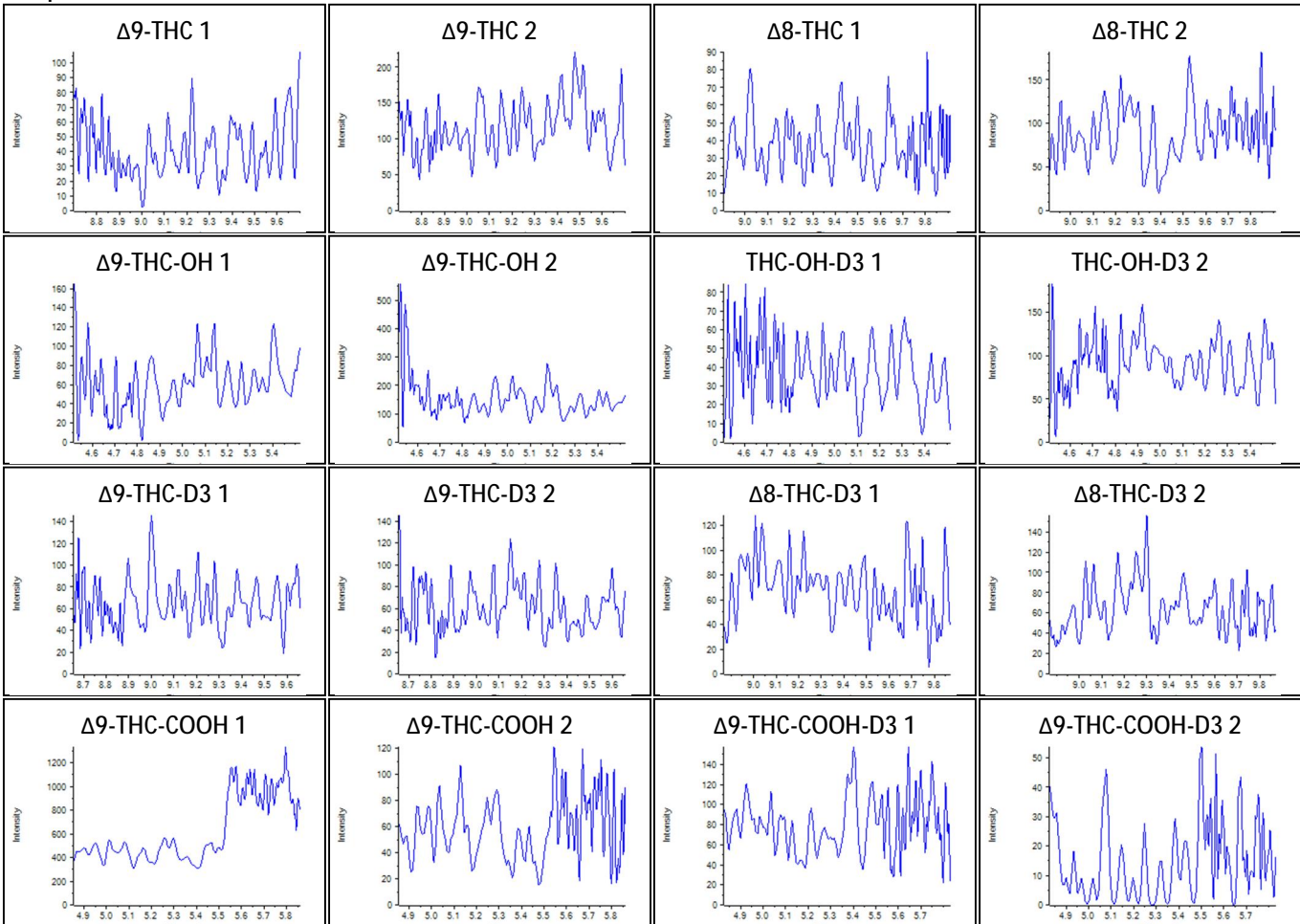
Sample Name: FX



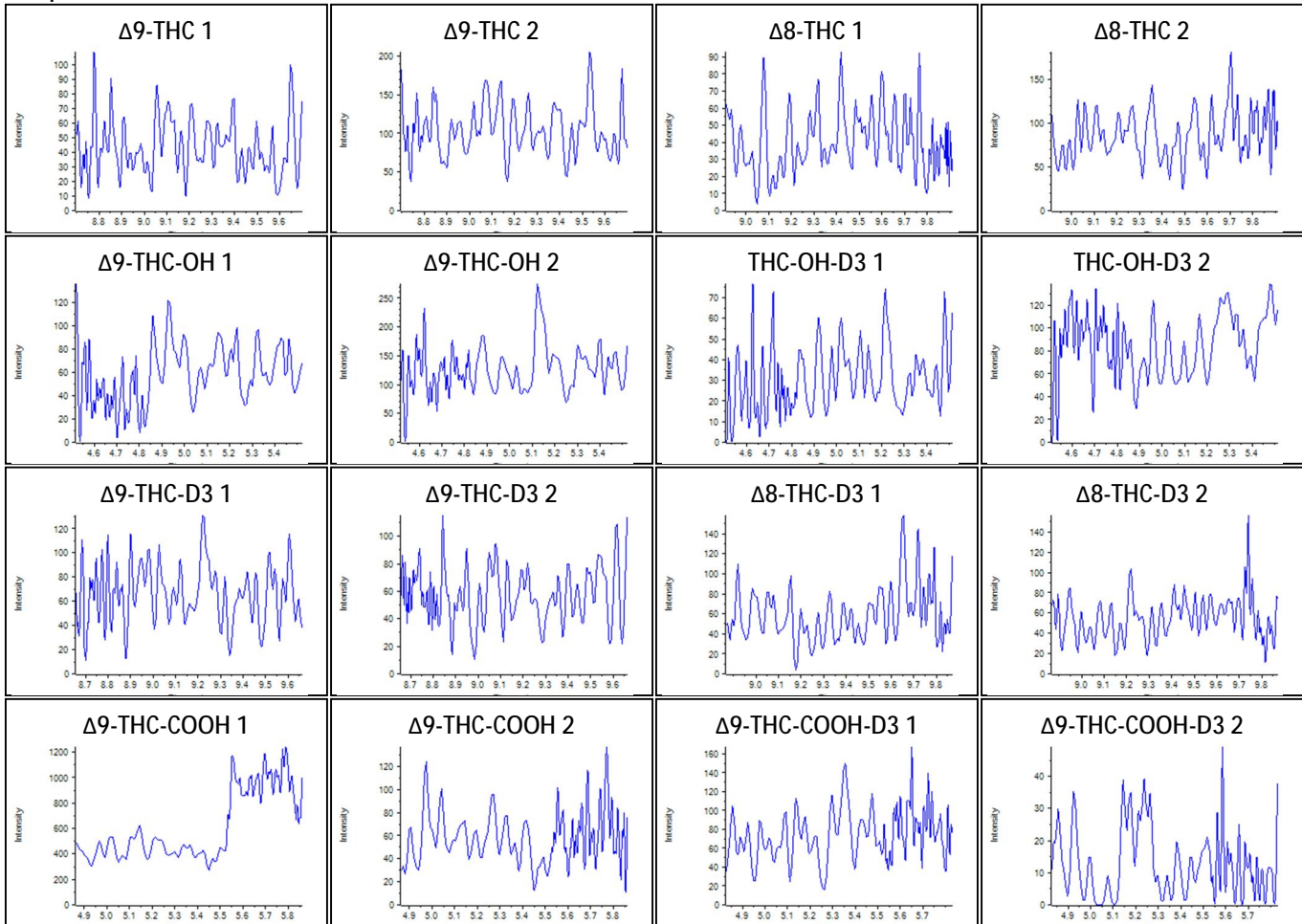
COMMON DRUG INTERFERENCES

Cannabinoid Lot Log	
Date	09.19.22
Analyst	SB
Checked tubes	N/A
Sample preparation	
Sample Pipette	007
Blank Blood	FWI
Standards	
Controls	
Standards/Controls Pipette	063
Internal Standard	
Internal Standard Pipette	
0.1 % formic acid in H ₂ O	091622 DMC
Extraction	
SLE Cartridge	820-2-06
MTBE	L322A-3
B: 0.1% formic acid in ACN	082922 SB
A: 0.1 % formic acid in H ₂ O	091422 DMC
Instrumentation	
A: 0.1 % formic acid in H ₂ O	090122 HK
B: 0.1% formic acid in ACN	091222 SB
Column Serial Number	USCGC17817
Instrument	21-1
Sequence Check:	
Notes: Interference	

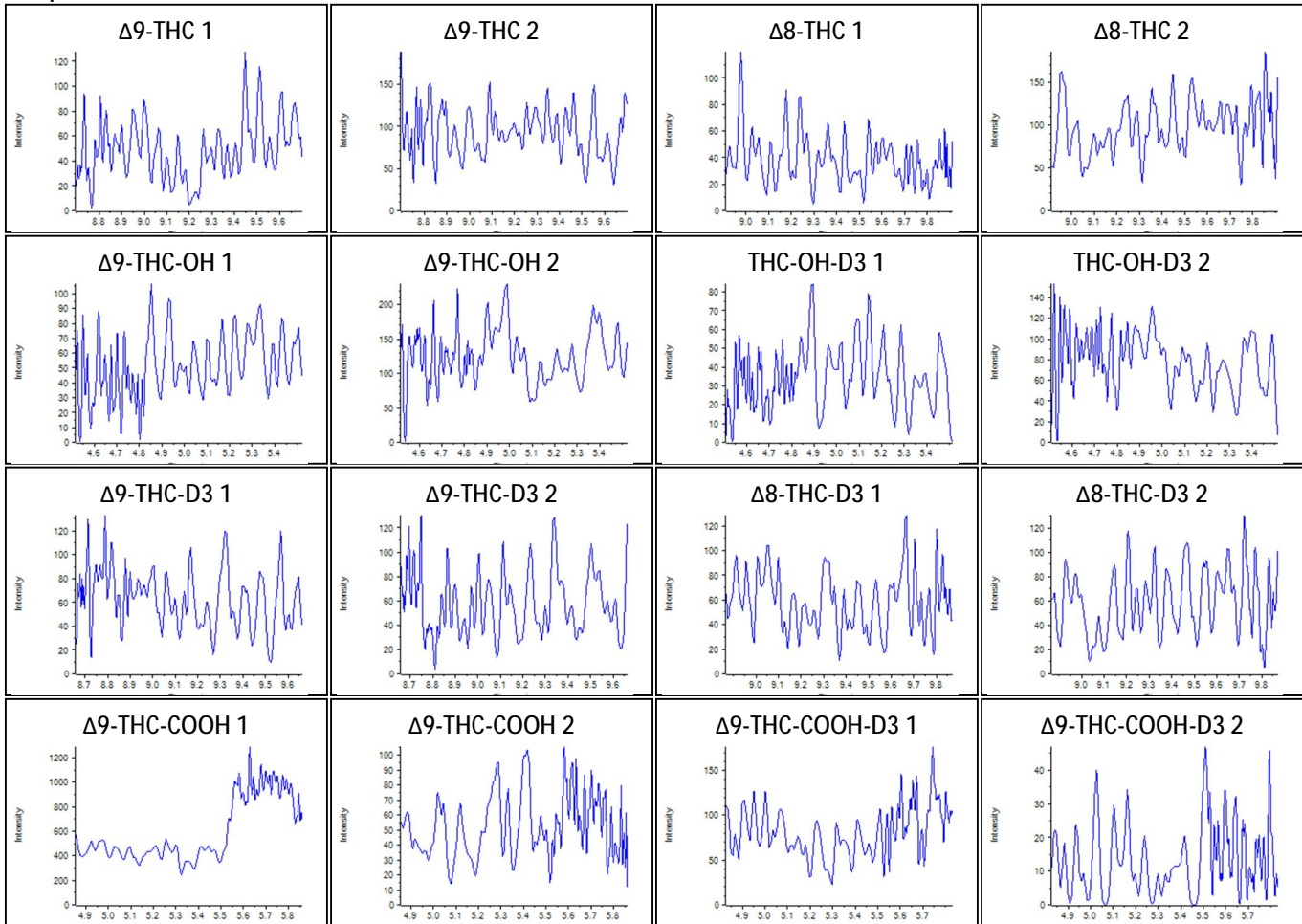
Sample Name: MSP Mix A



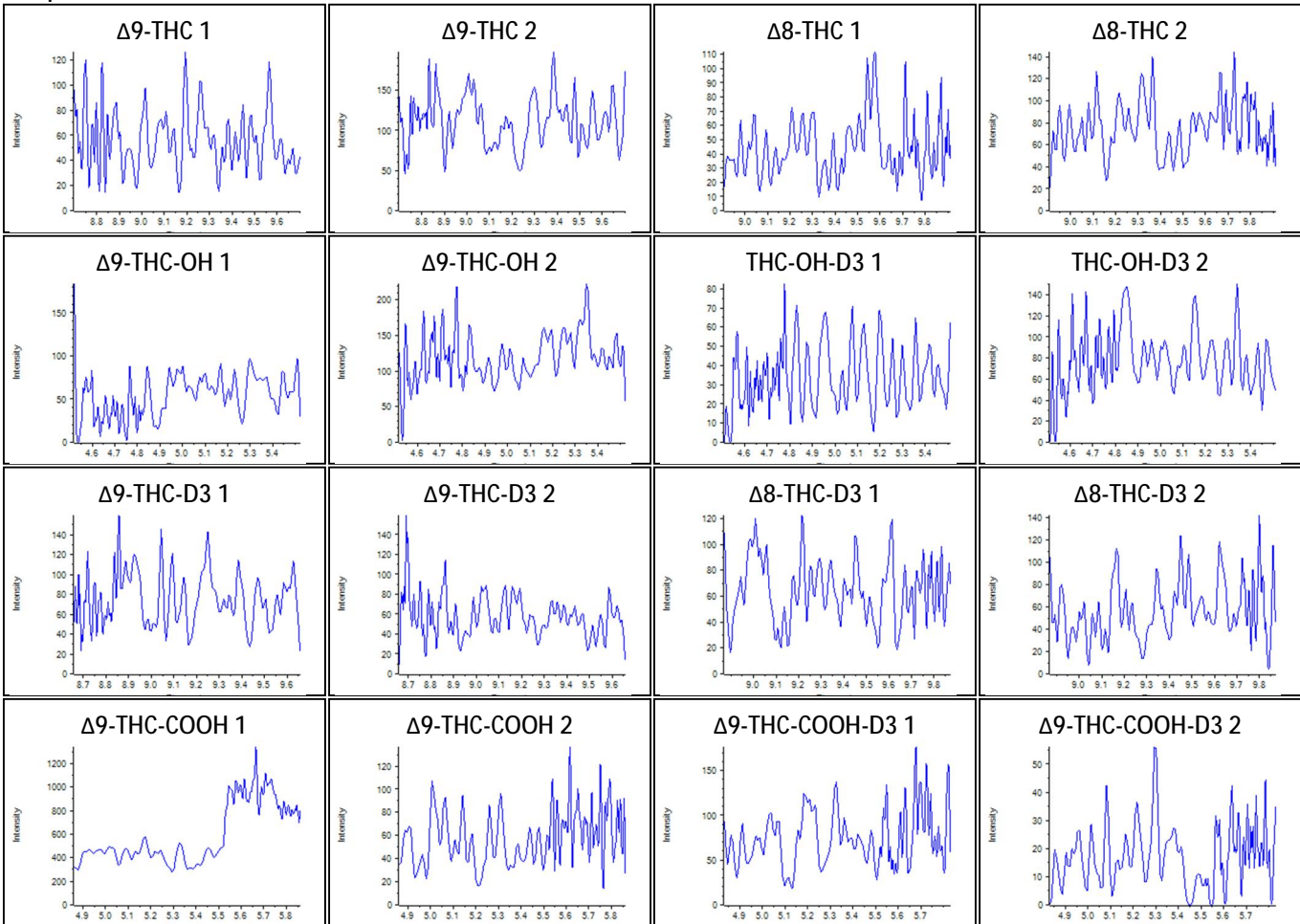
Sample Name: MSP Mix B



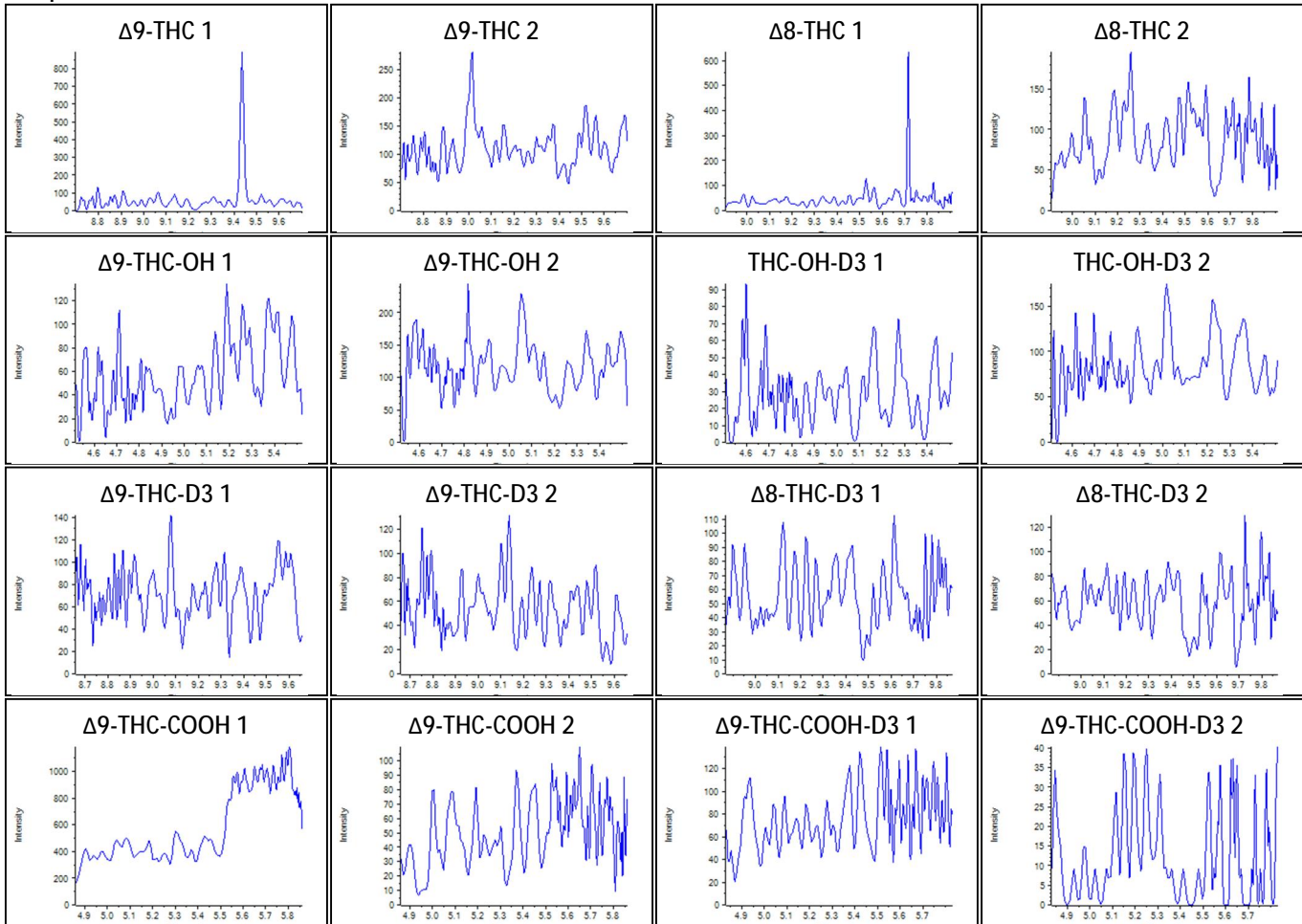
Sample Name: MSP Mix C



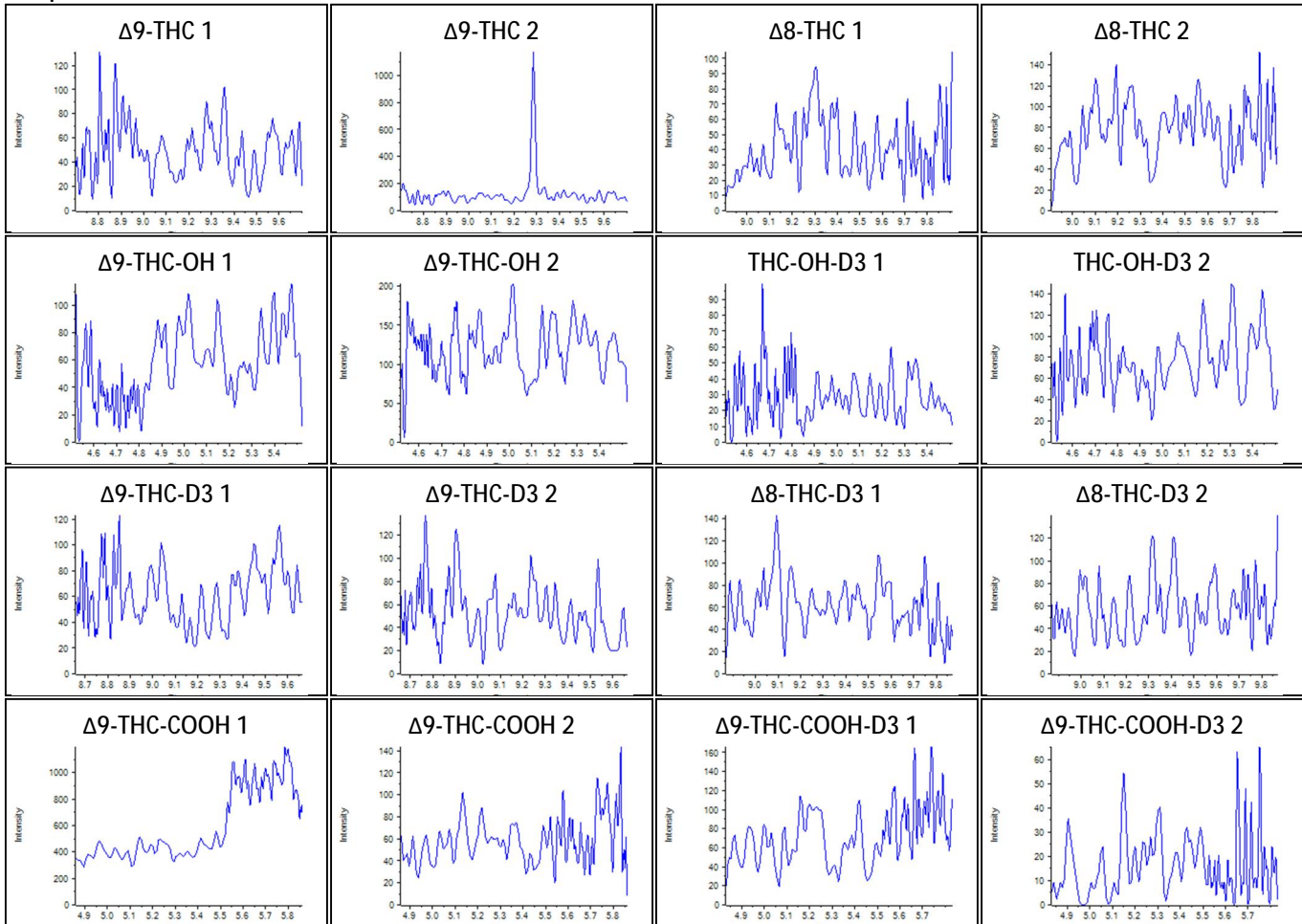
Sample Name: MSP Mix D



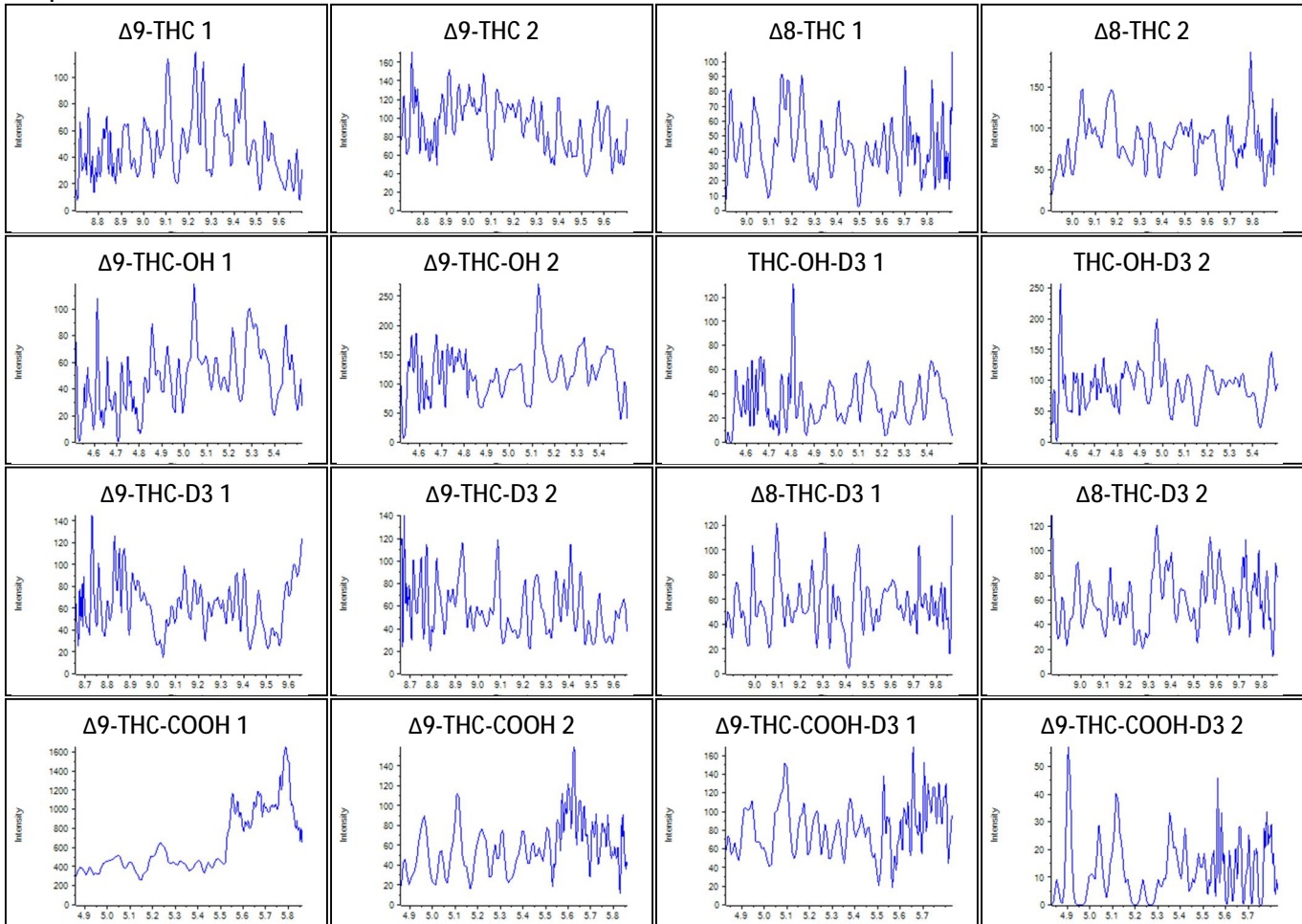
Sample Name: MSP Mix E



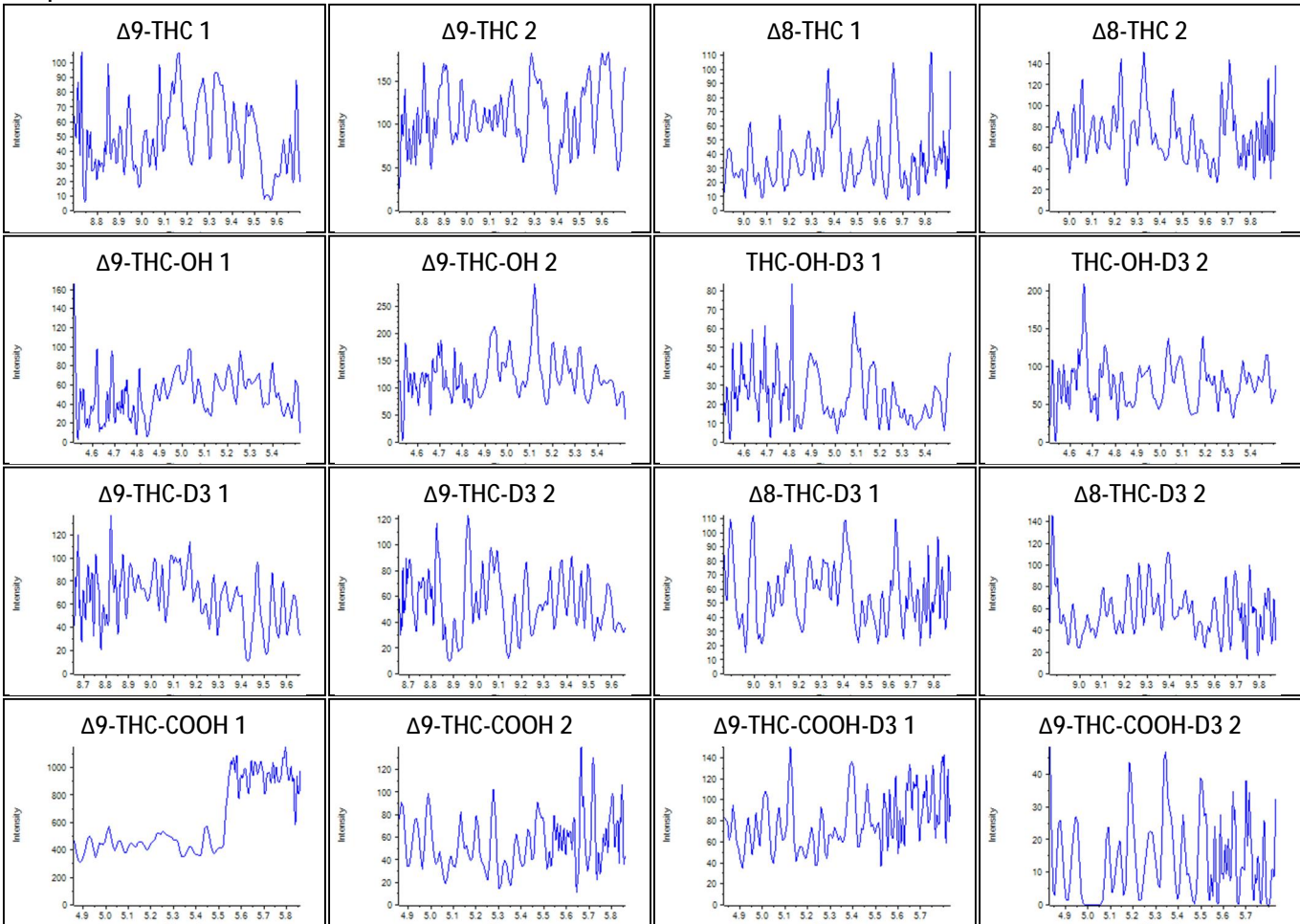
Sample Name: MSP Mix F



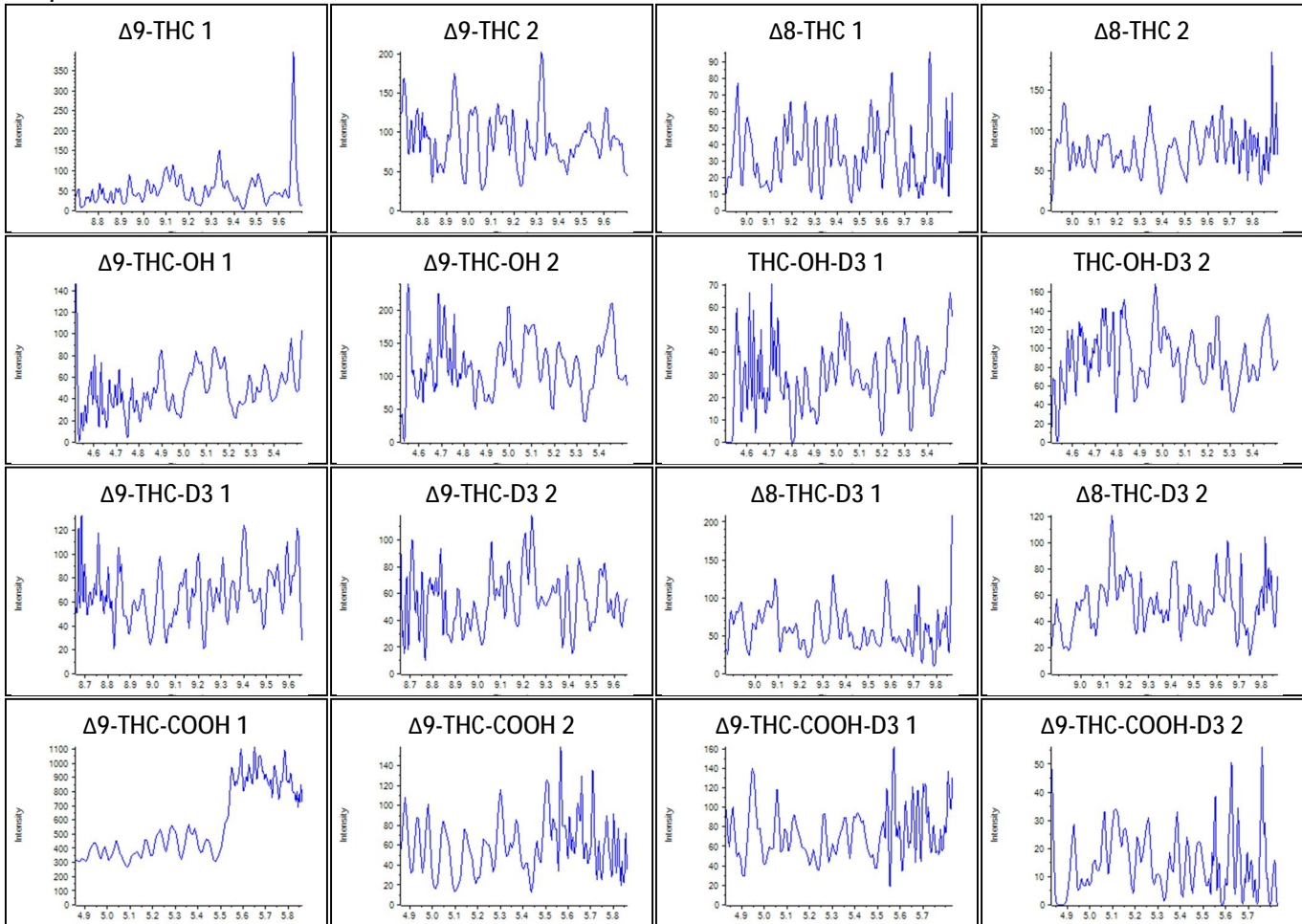
Sample Name: Interference Mix 1



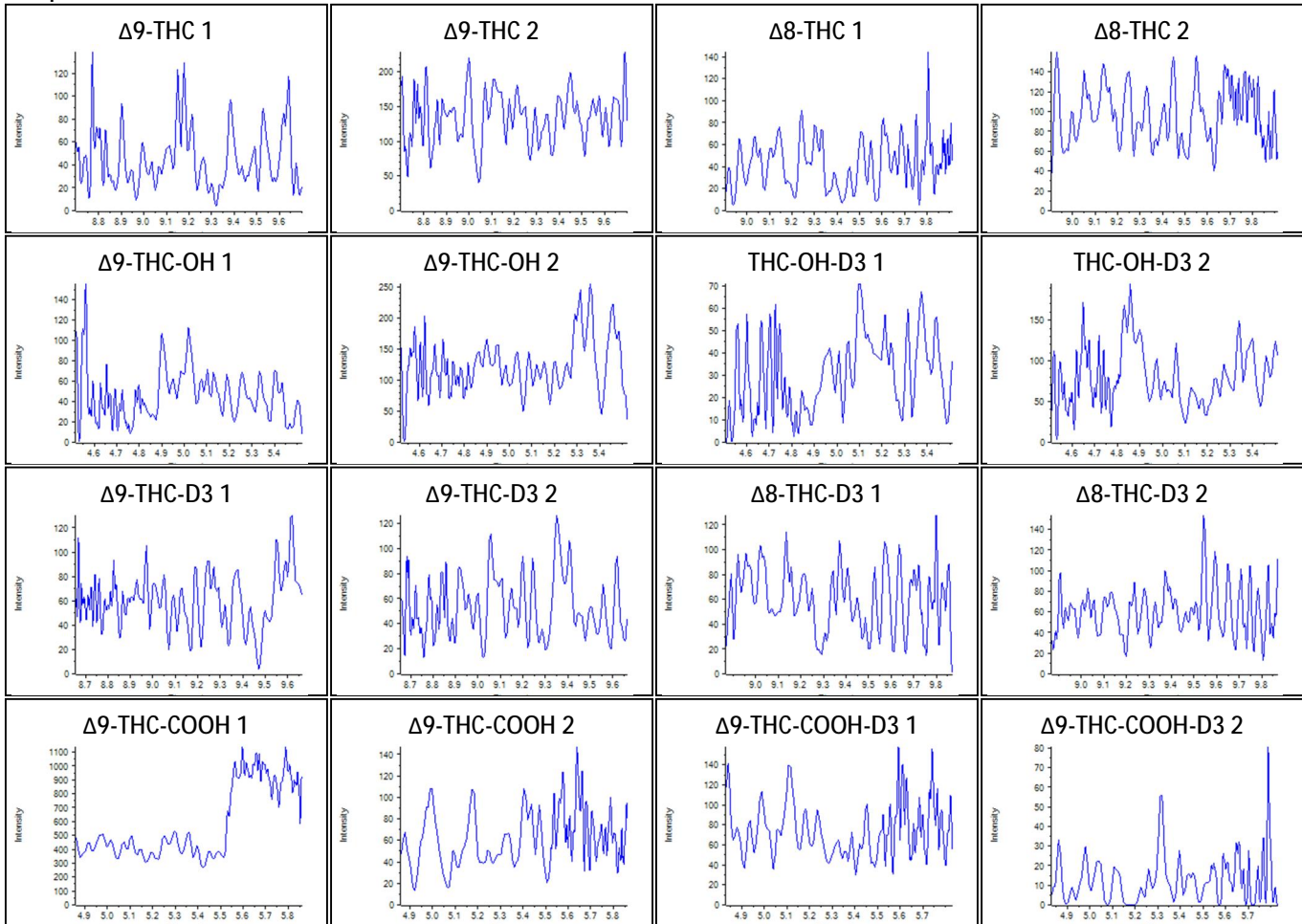
Sample Name: Interference Mix 2



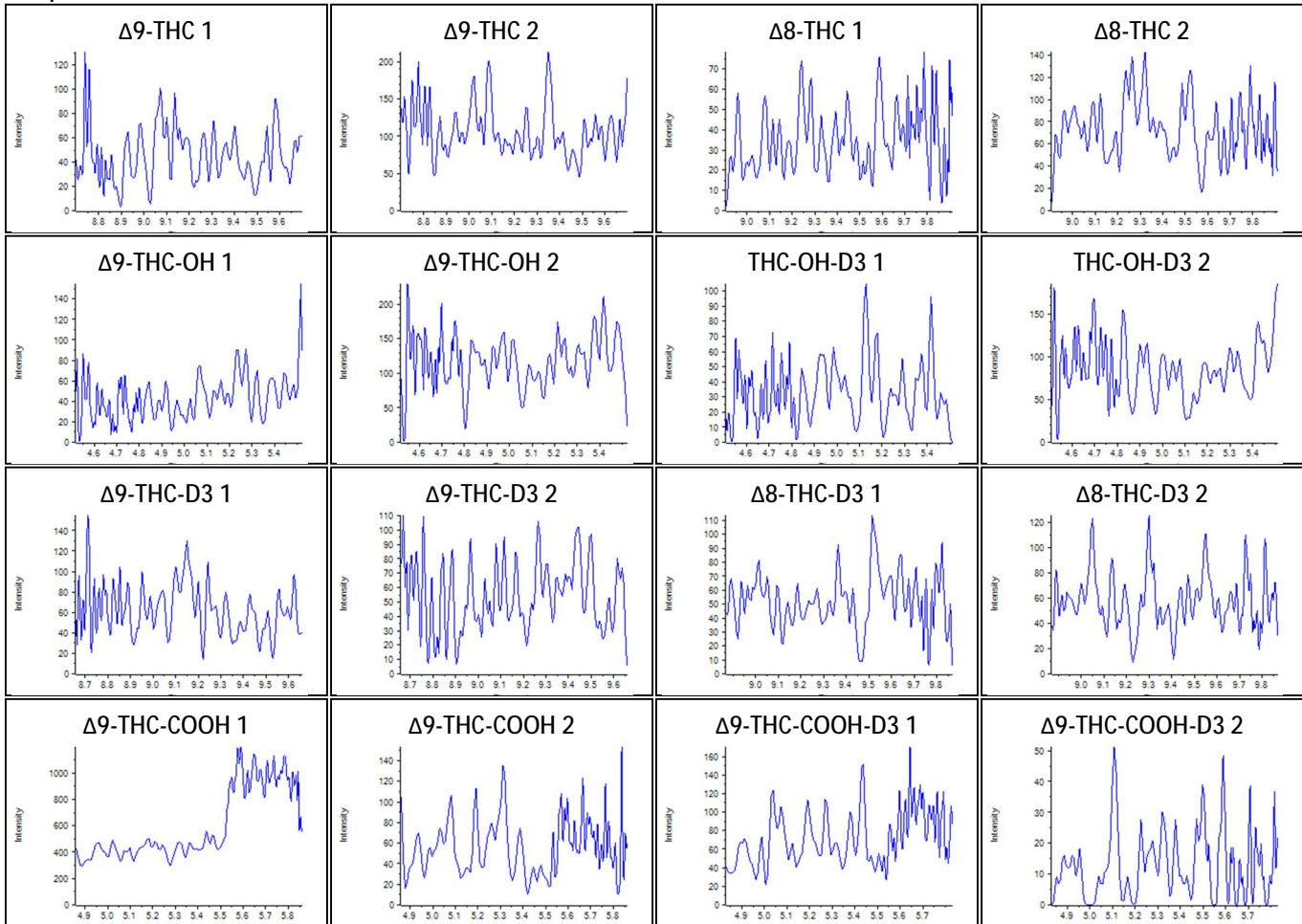
Sample Name: Interference Mix 3



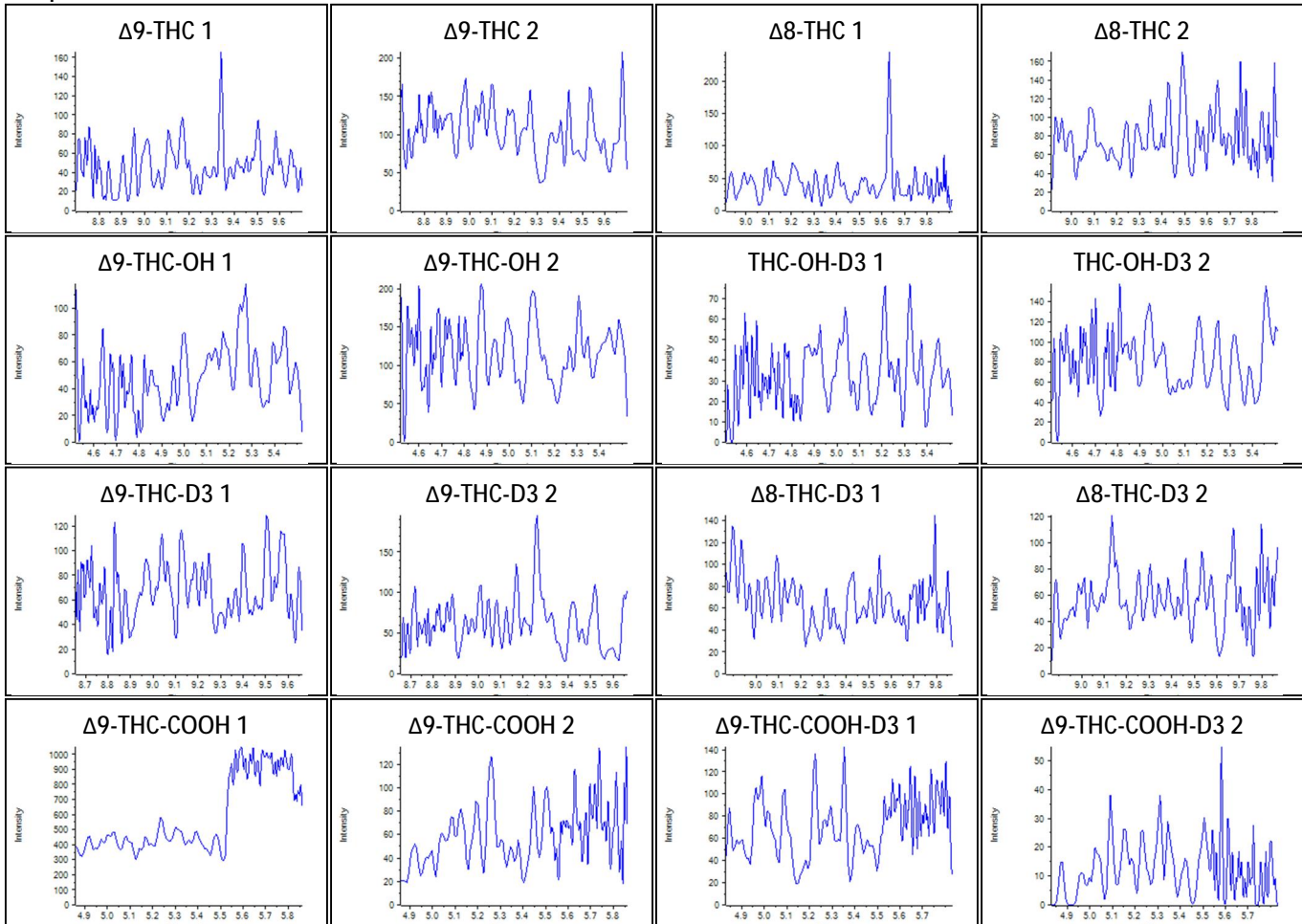
Sample Name: Interference Mix 4



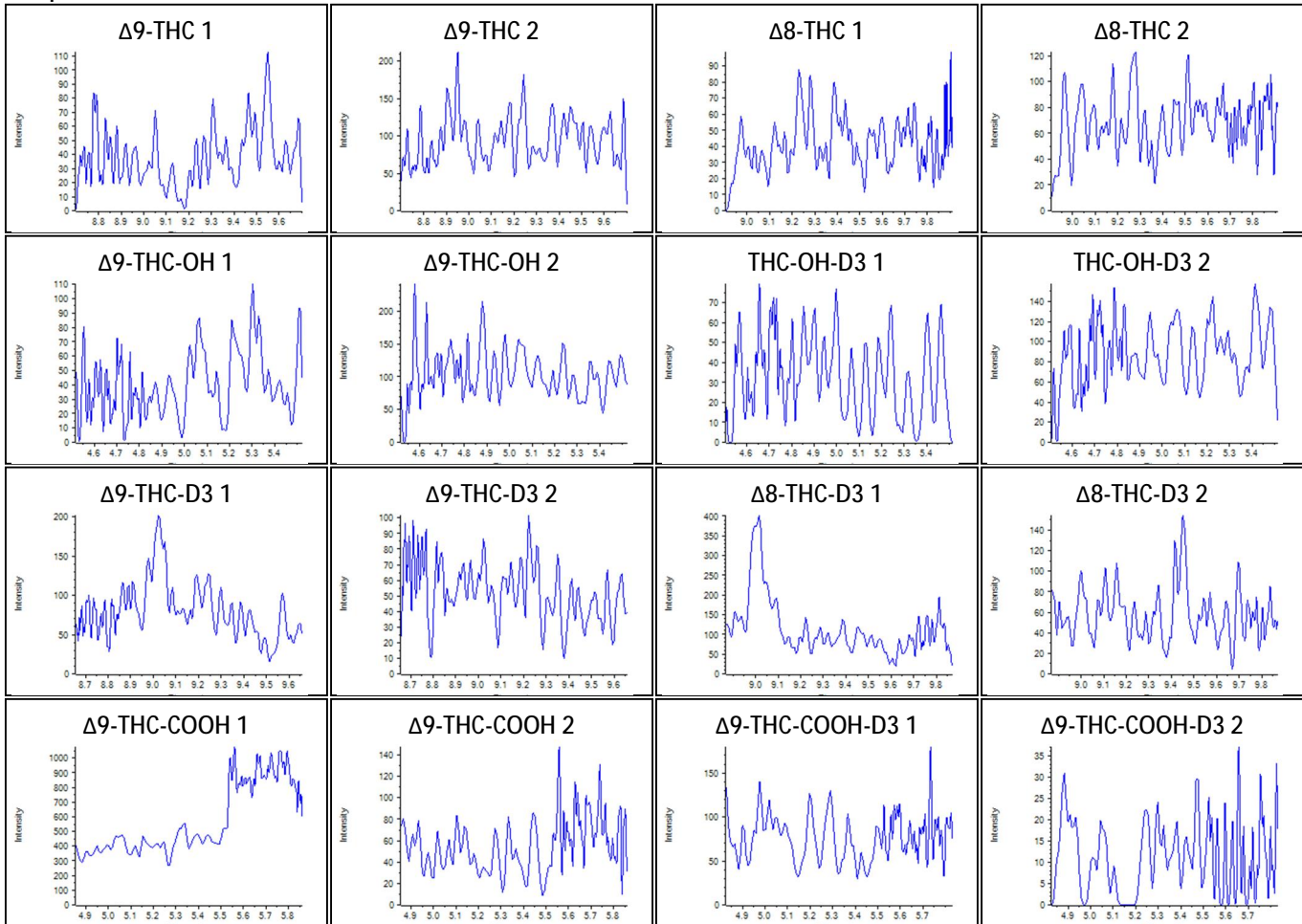
Sample Name: Interference Mix 5



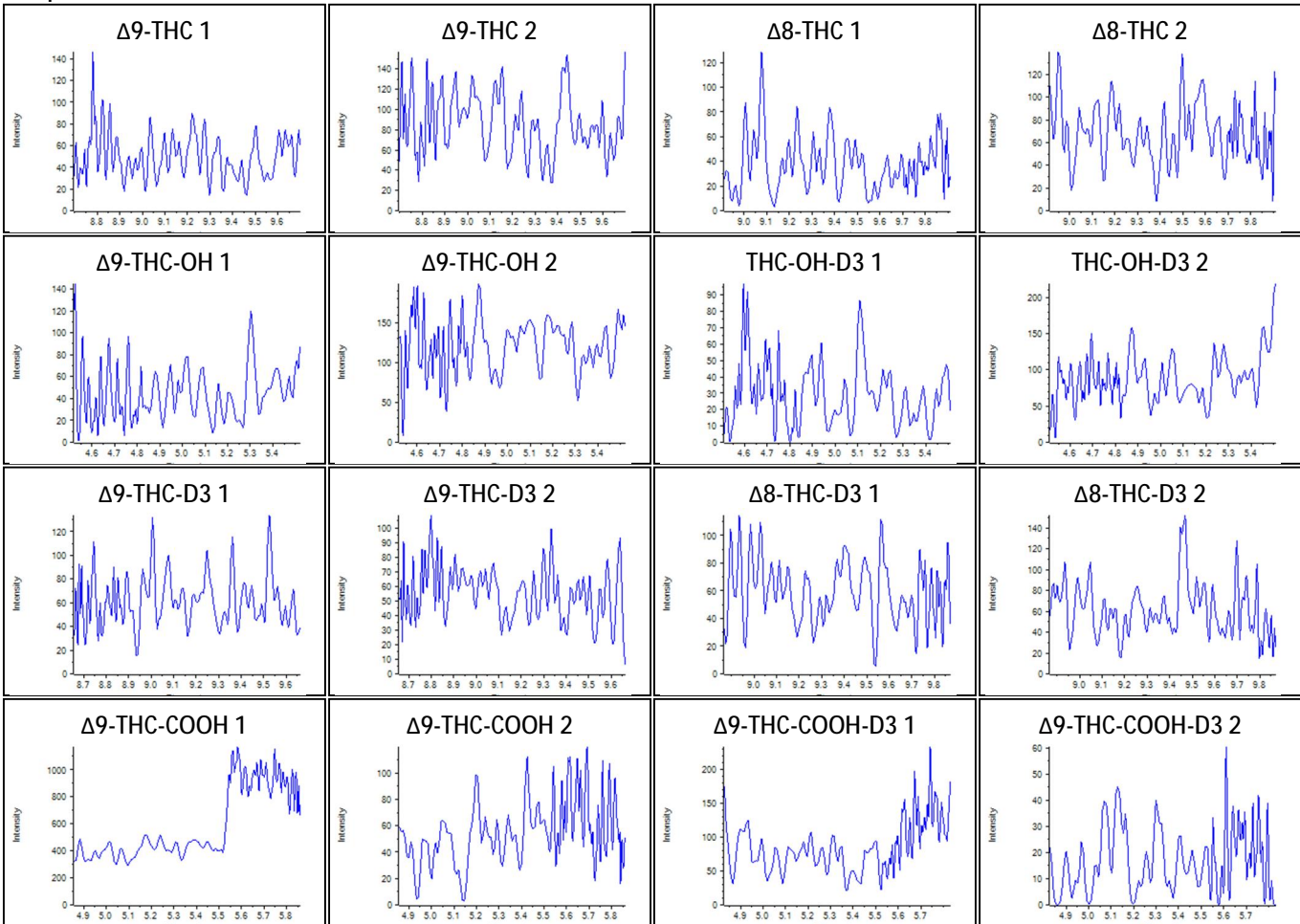
Sample Name: Interference Mix 6



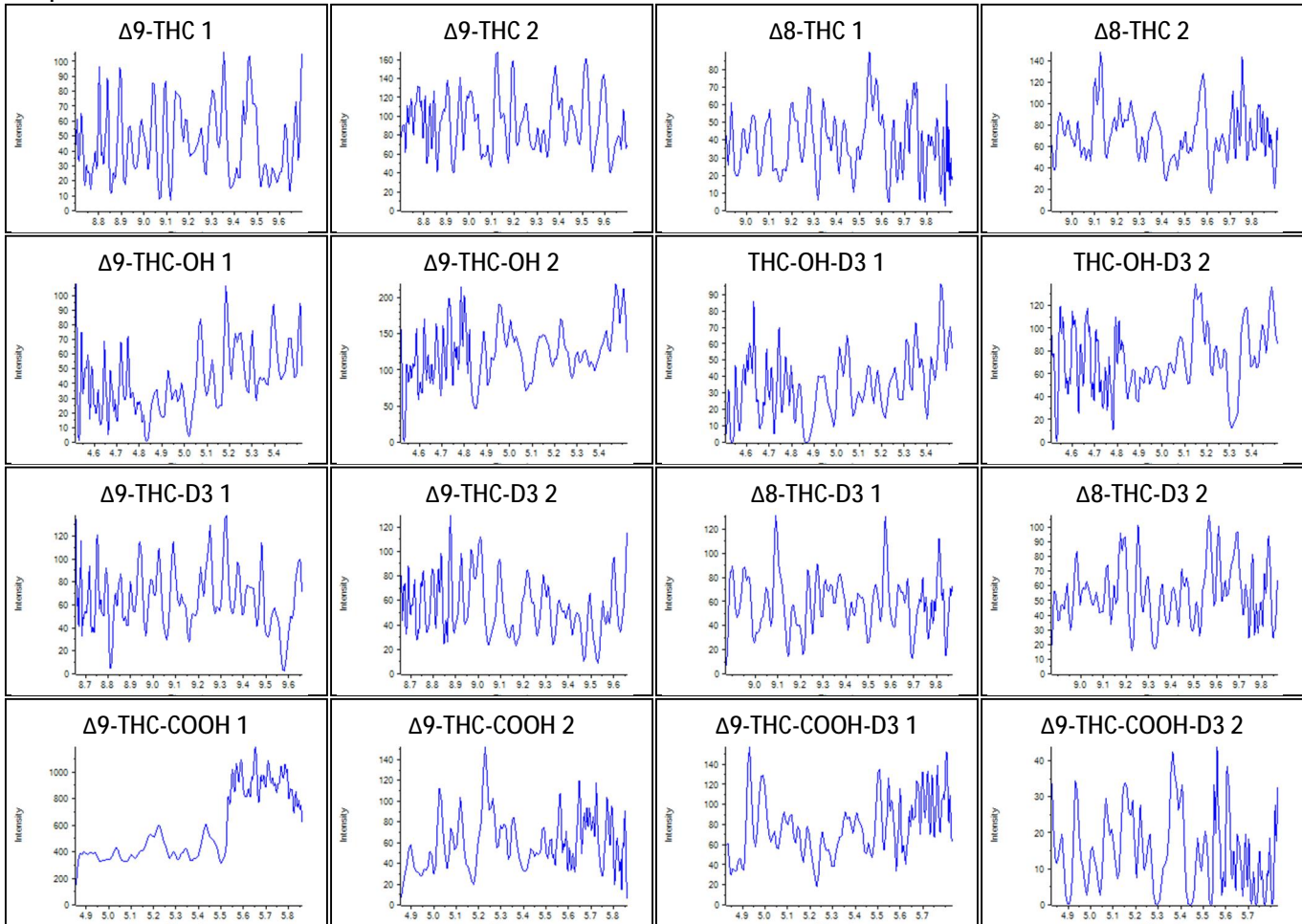
Sample Name: Interference Mix 7



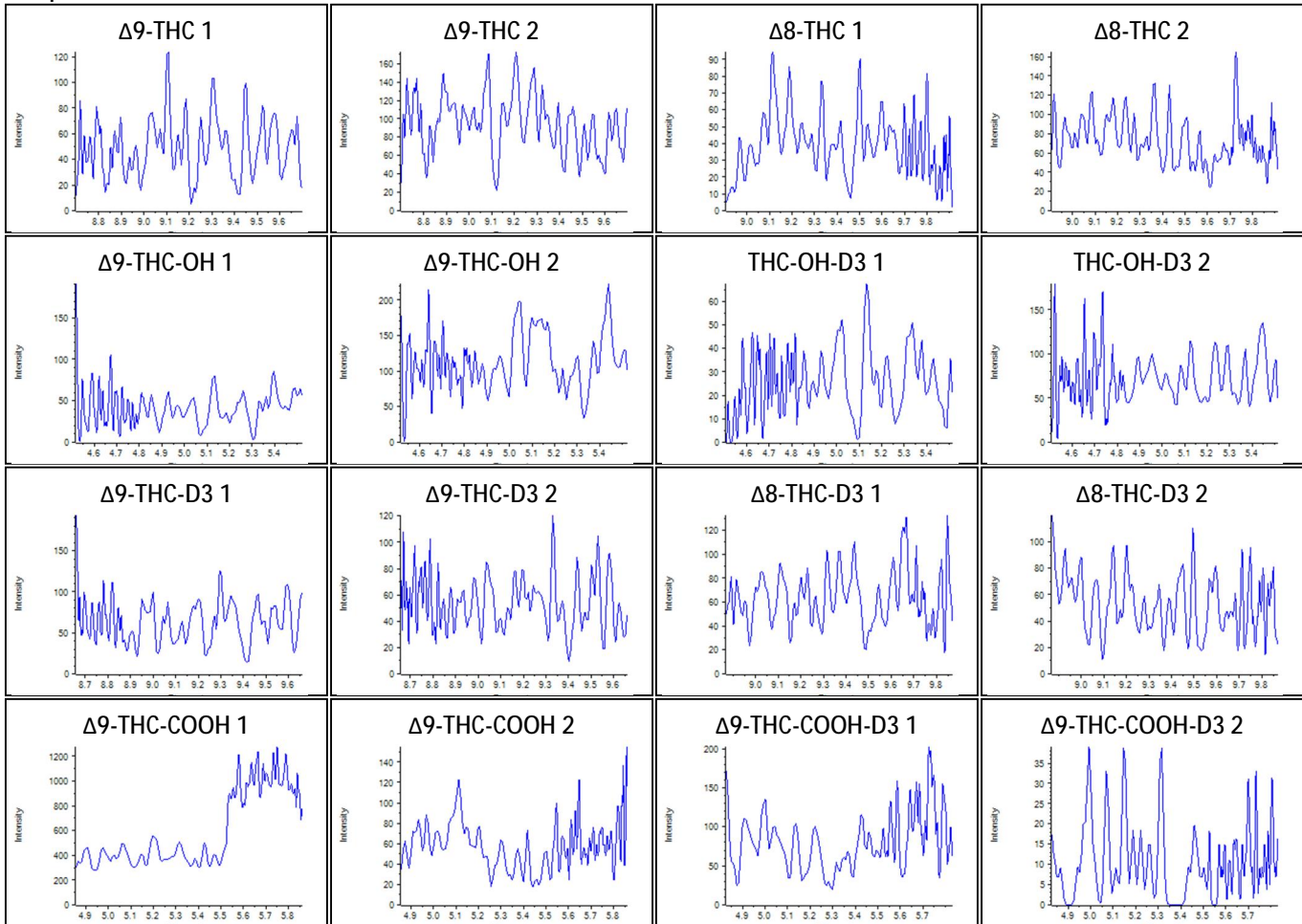
Sample Name: Intermediate Mix A1



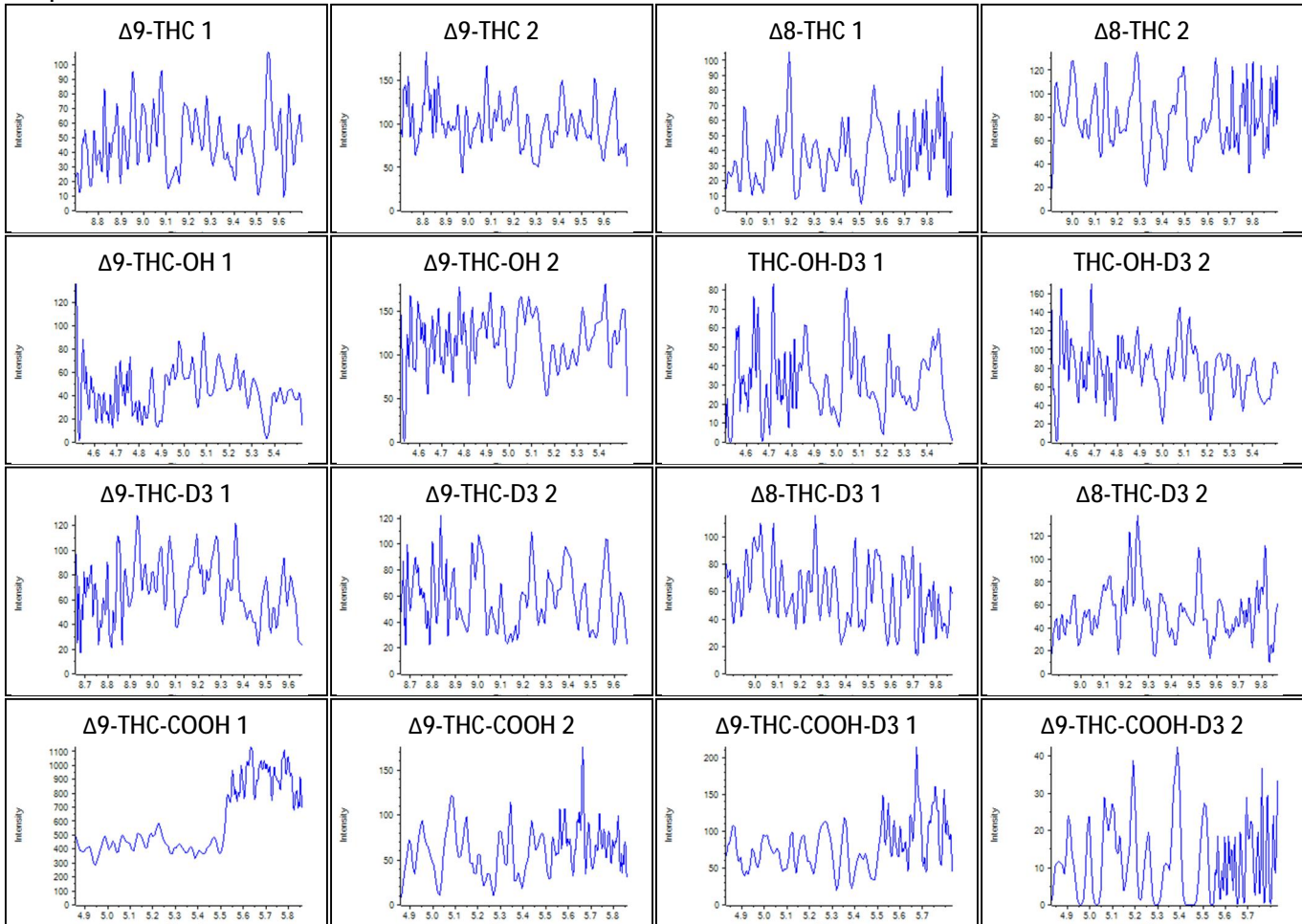
Sample Name: Intermediate Mix A2



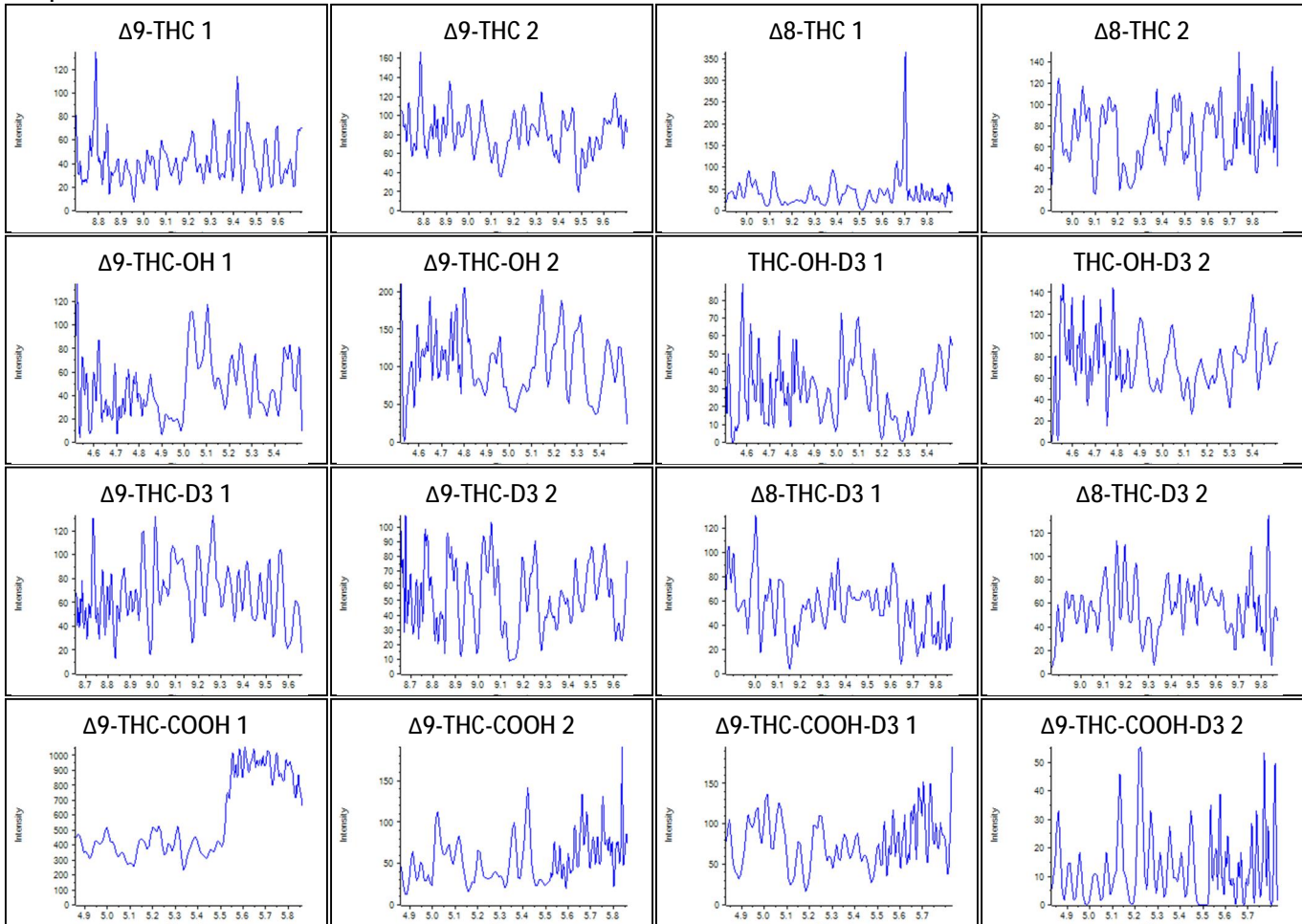
Sample Name: Intermediate Mix B



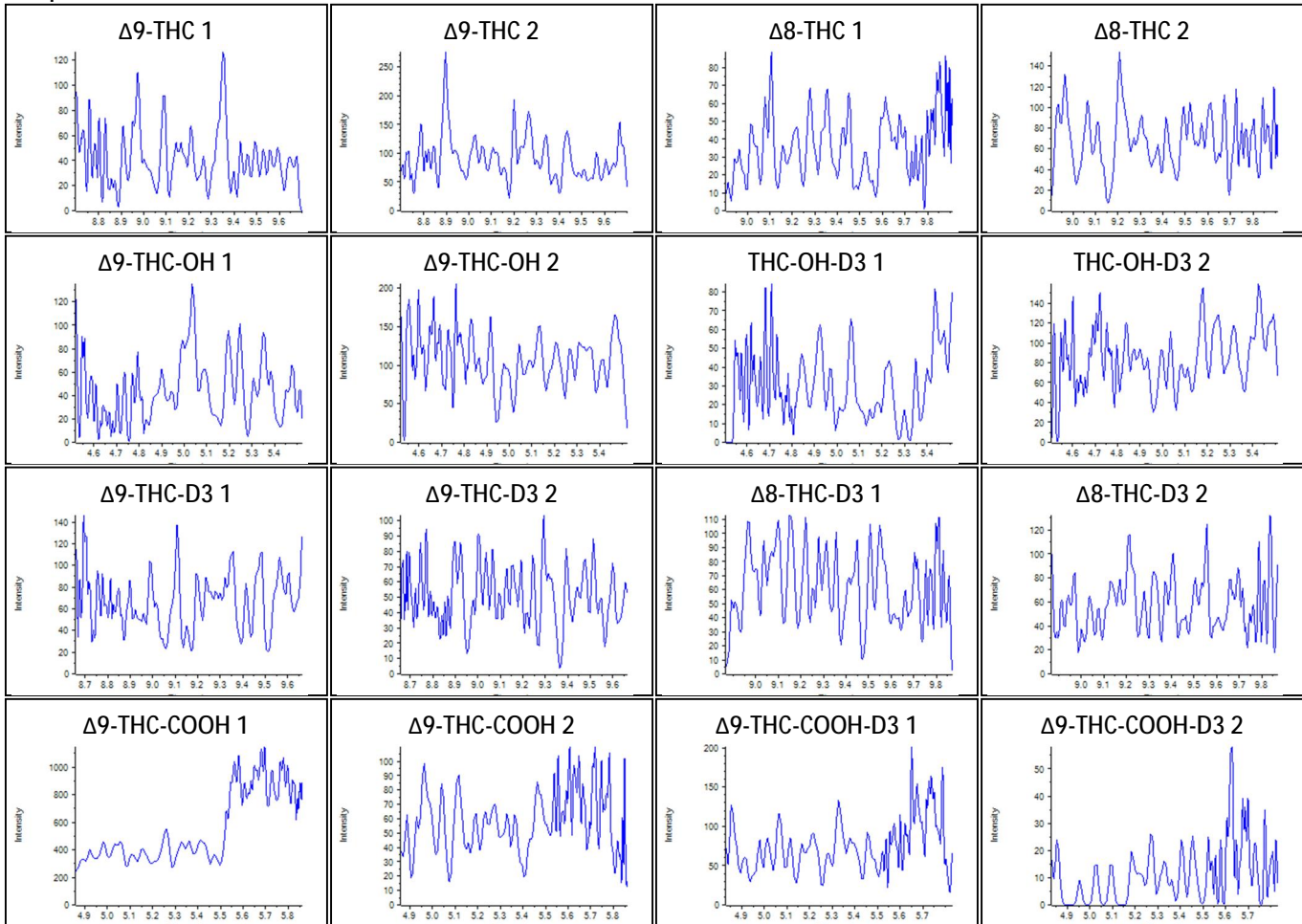
Sample Name: Intermediate Mix C



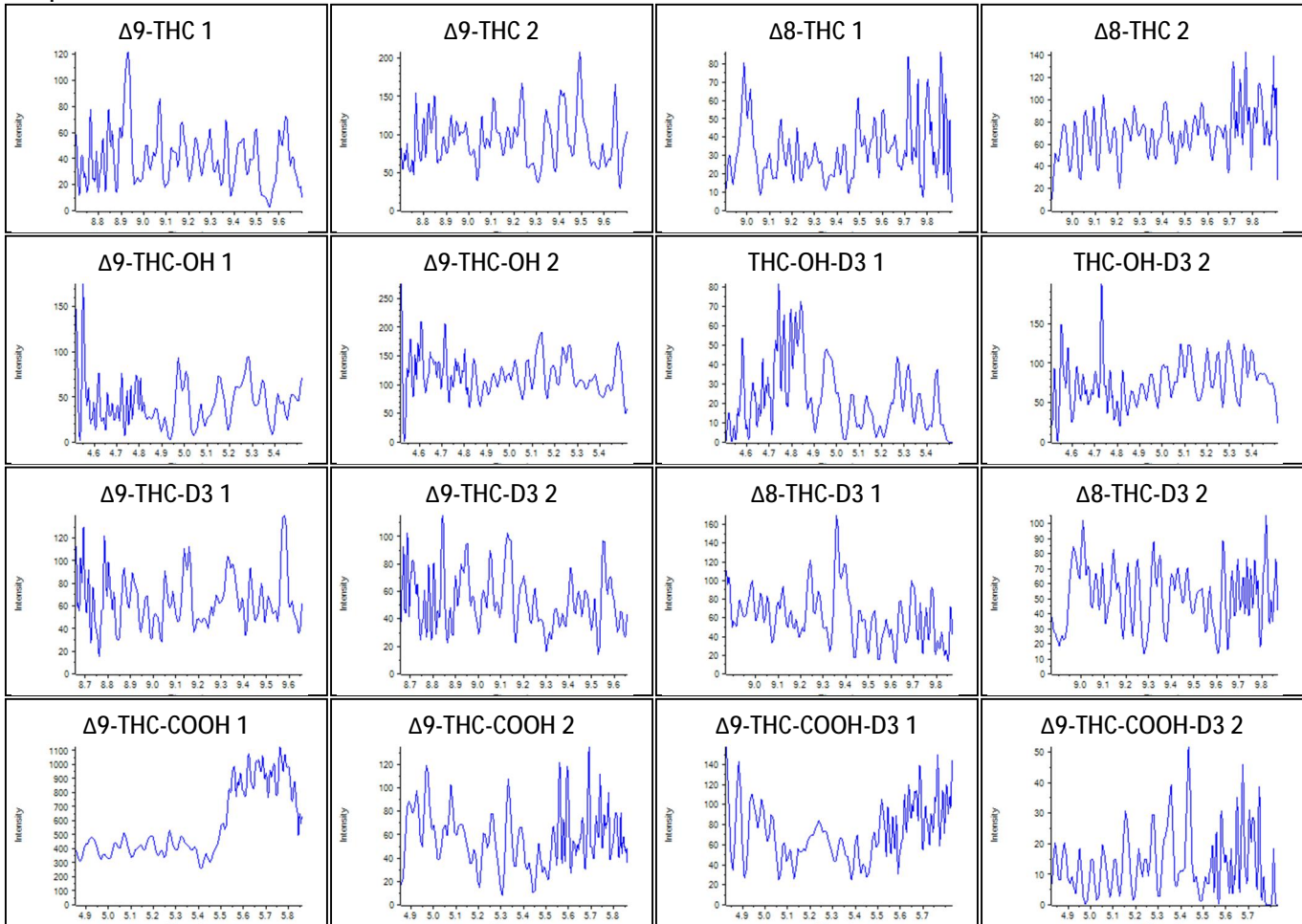
Sample Name: Intermediate Mix D



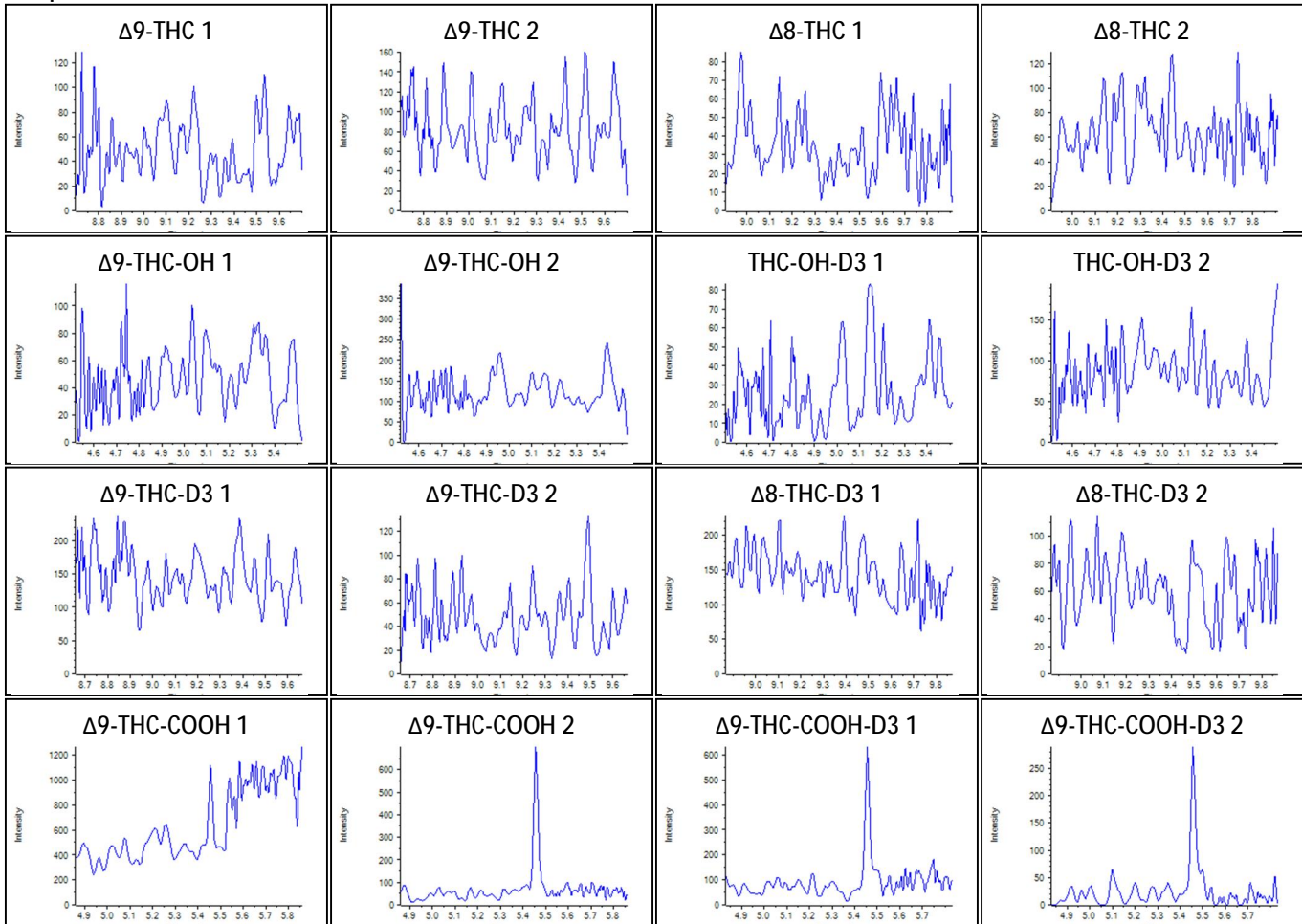
Sample Name: Intermediate Mix F



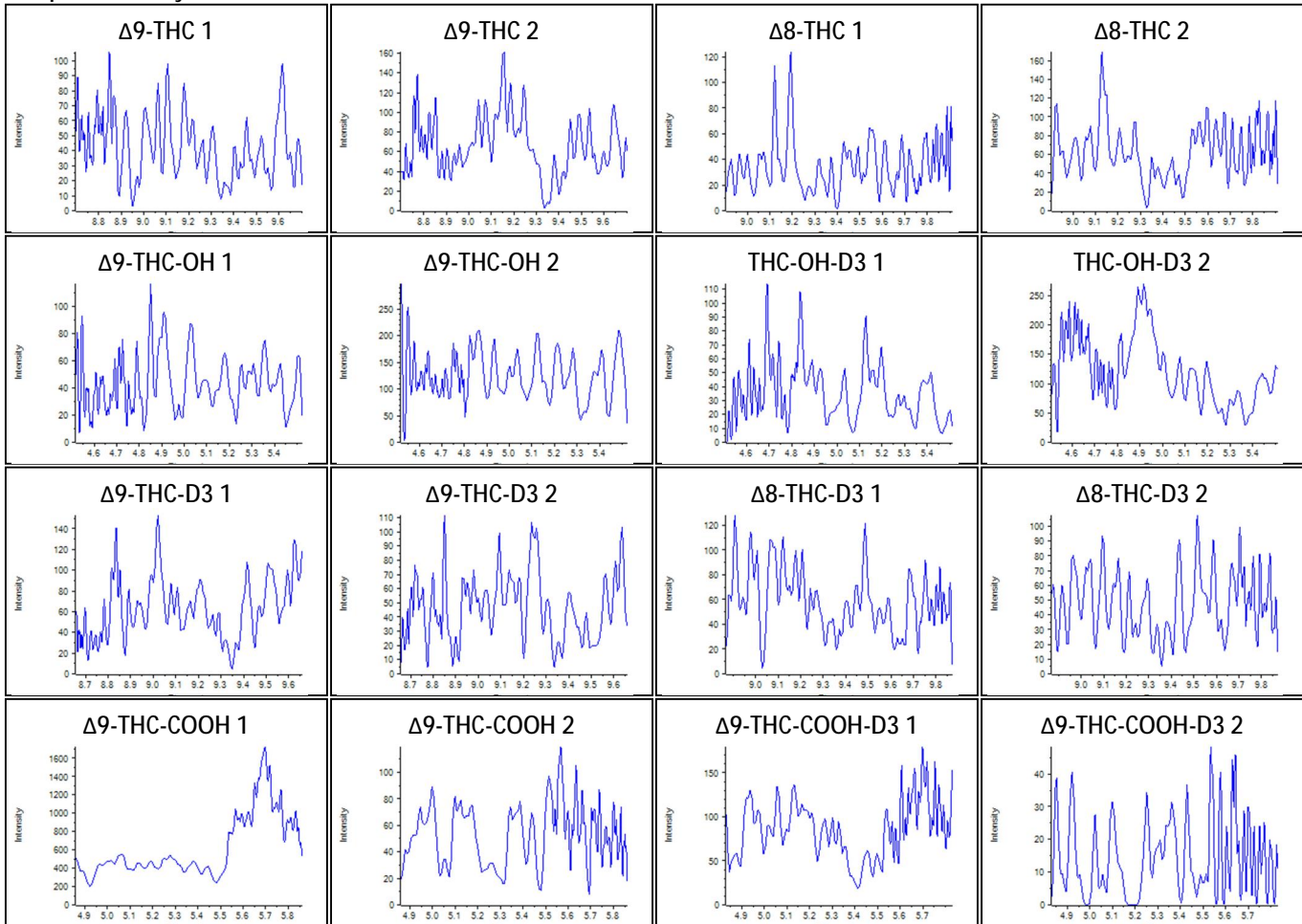
Sample Name: Intermediate Mix G



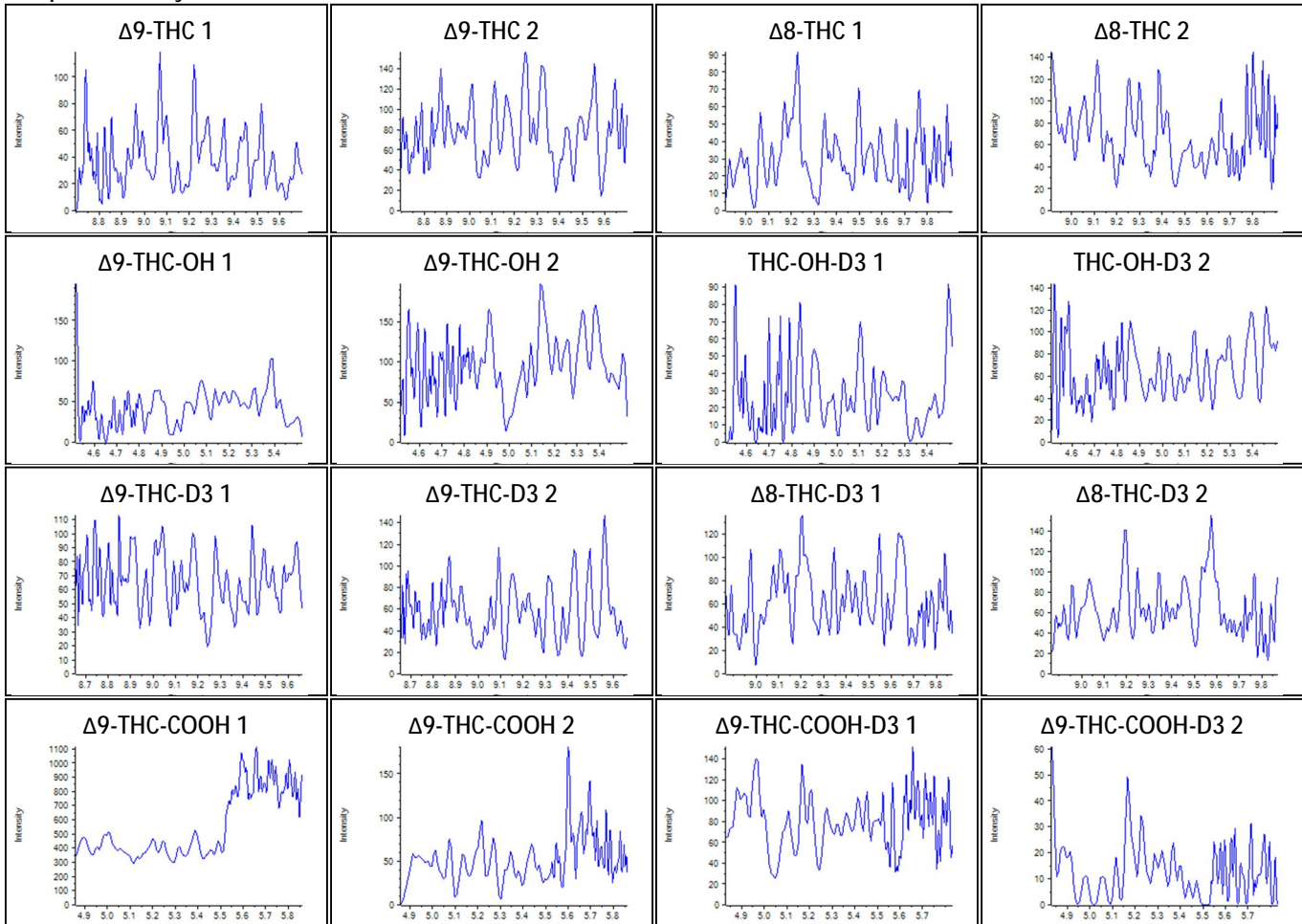
Sample Name: Intermediate Mix H



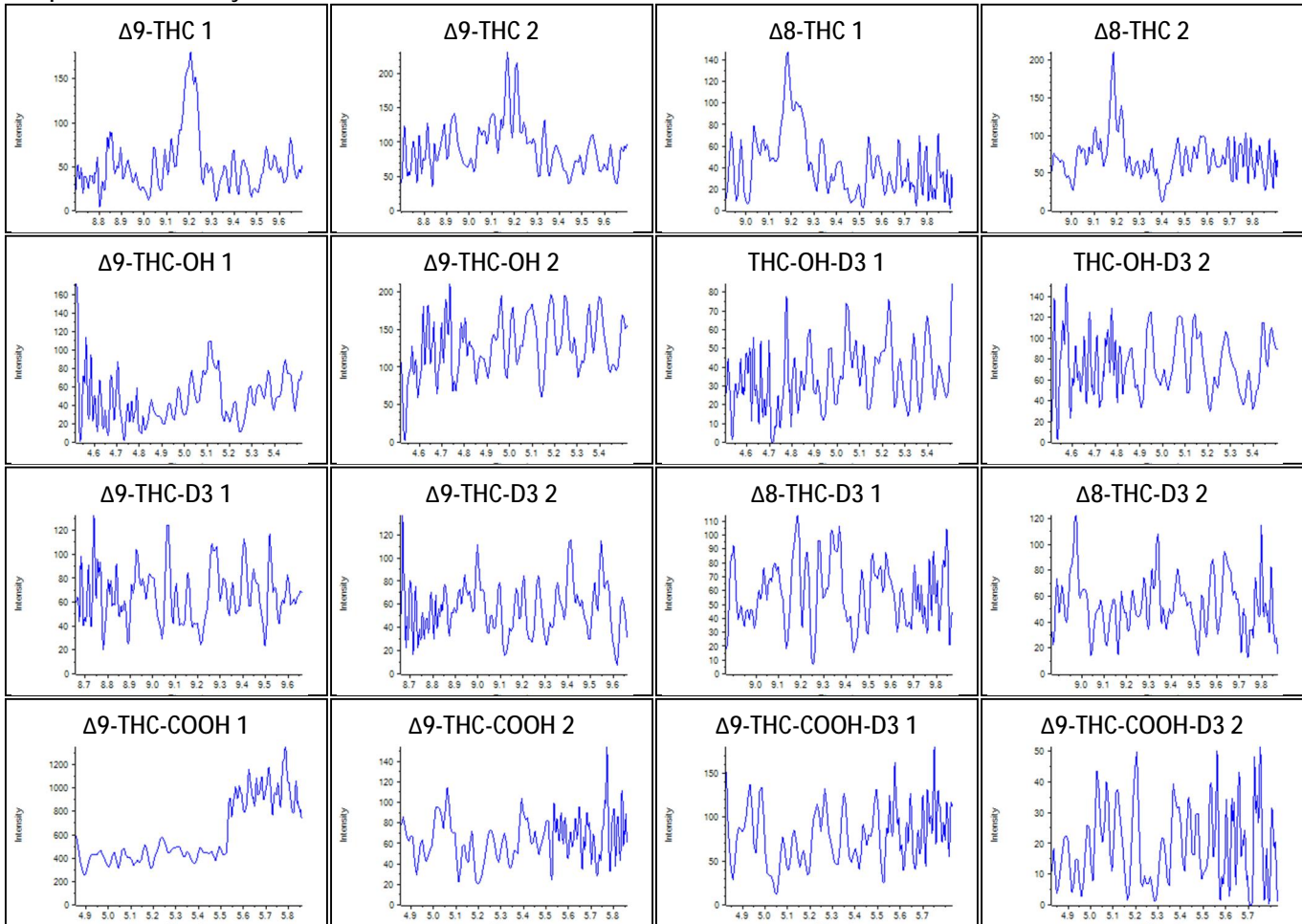
Sample Name: Synthetic Cannabinoid Mix 1



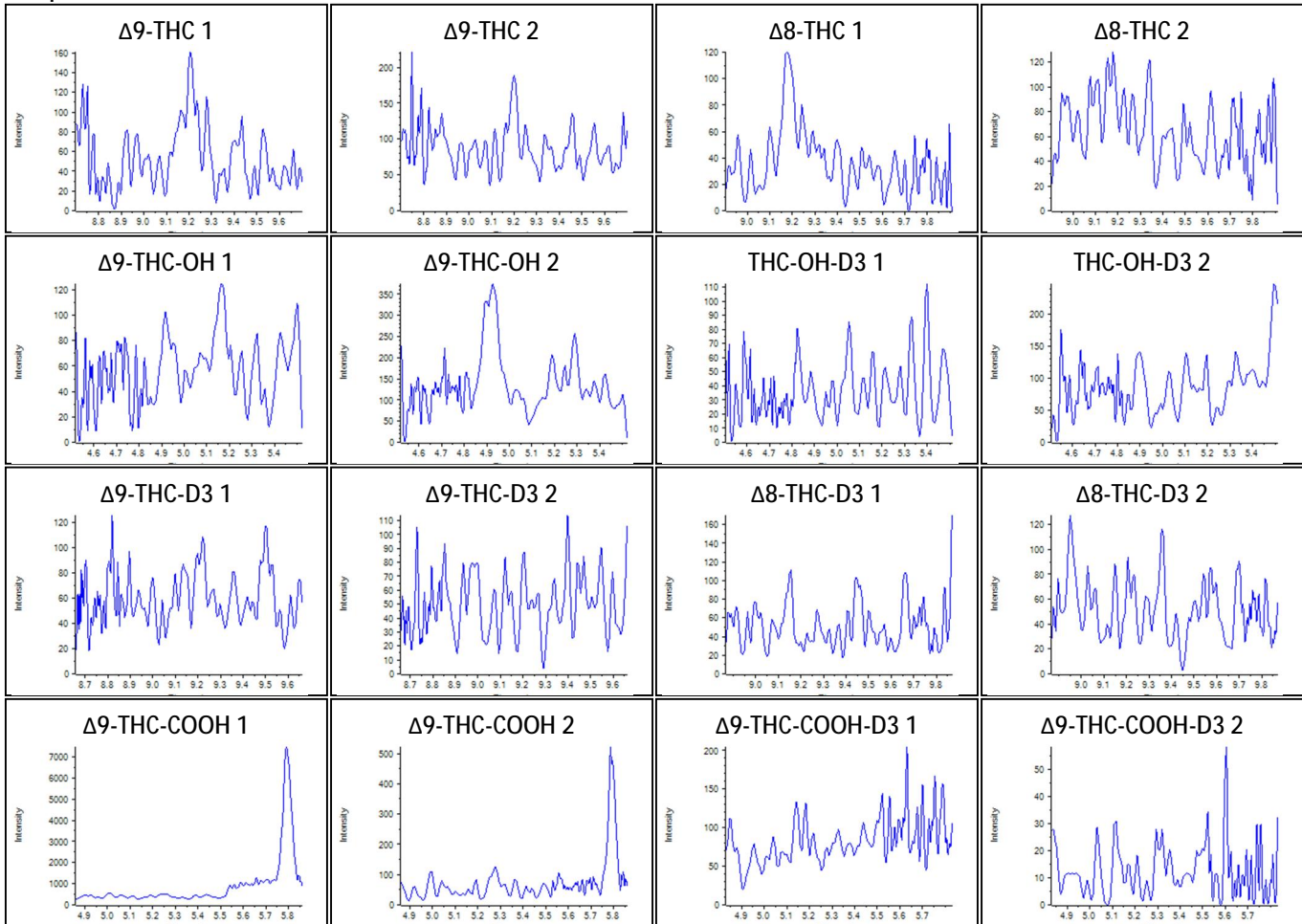
Sample Name: Synthetic Cannabinoid Mix 3



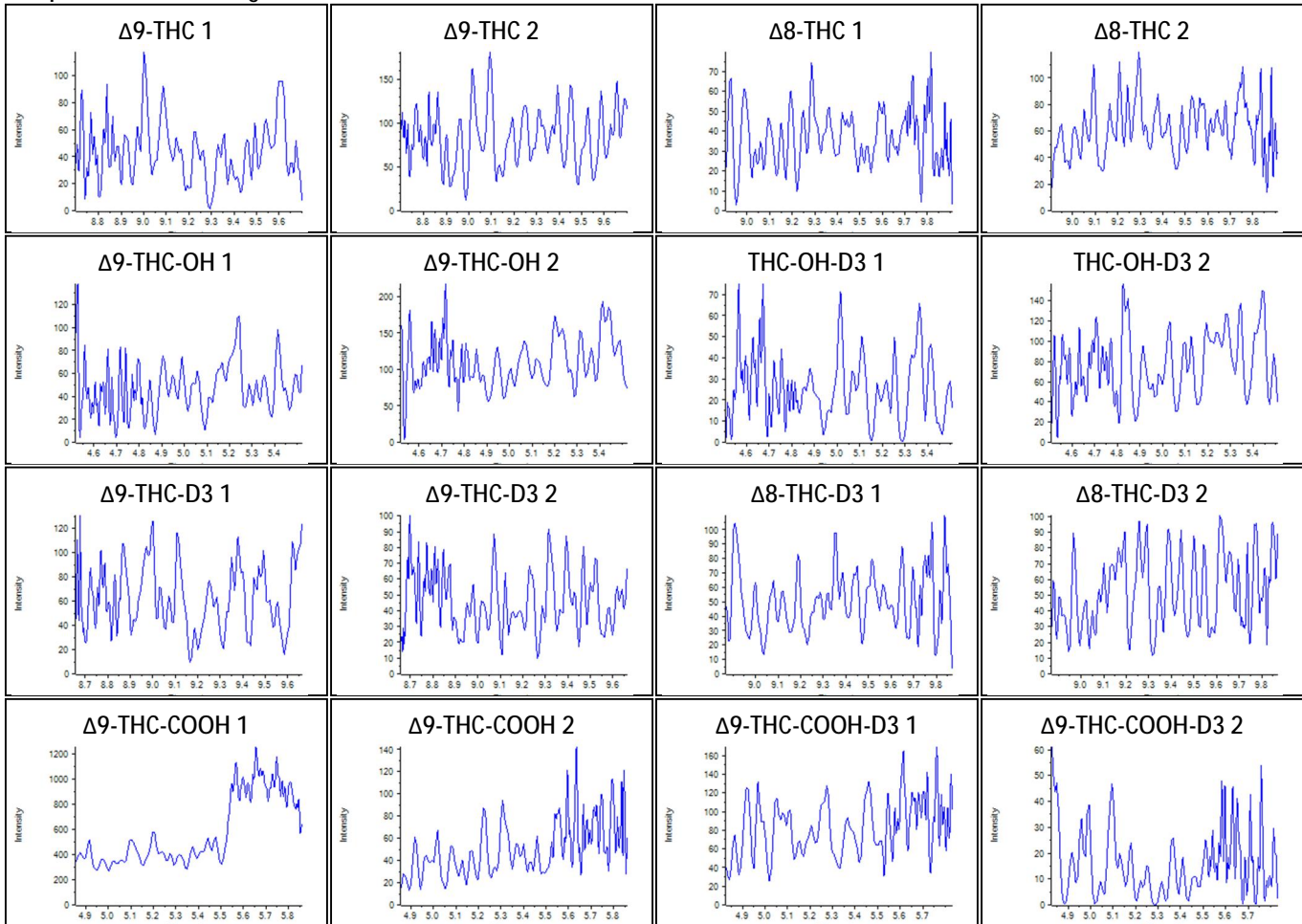
Sample Name: Tetrahydrocannabivarin



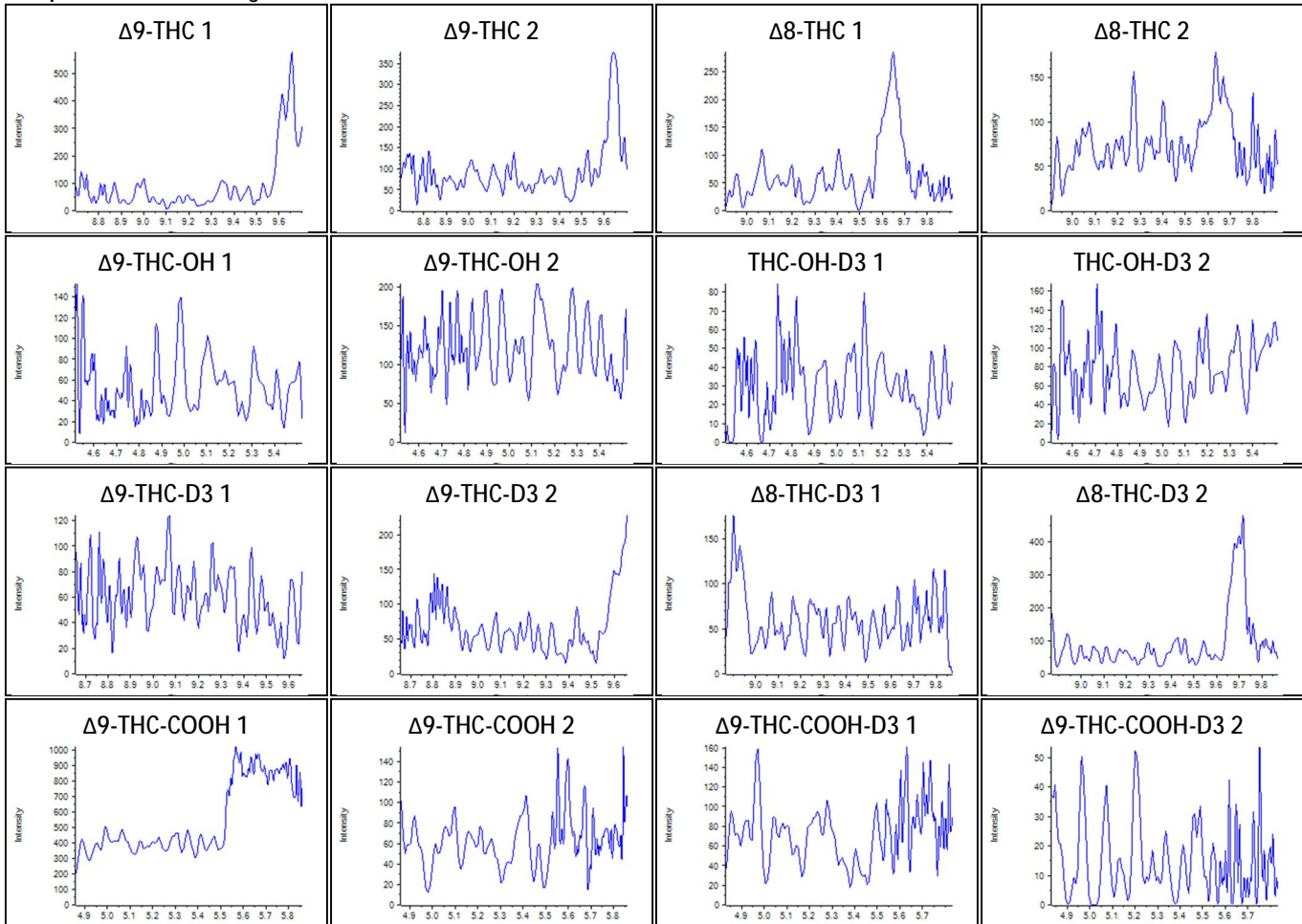
Sample Name: Cannabidiolic Acid



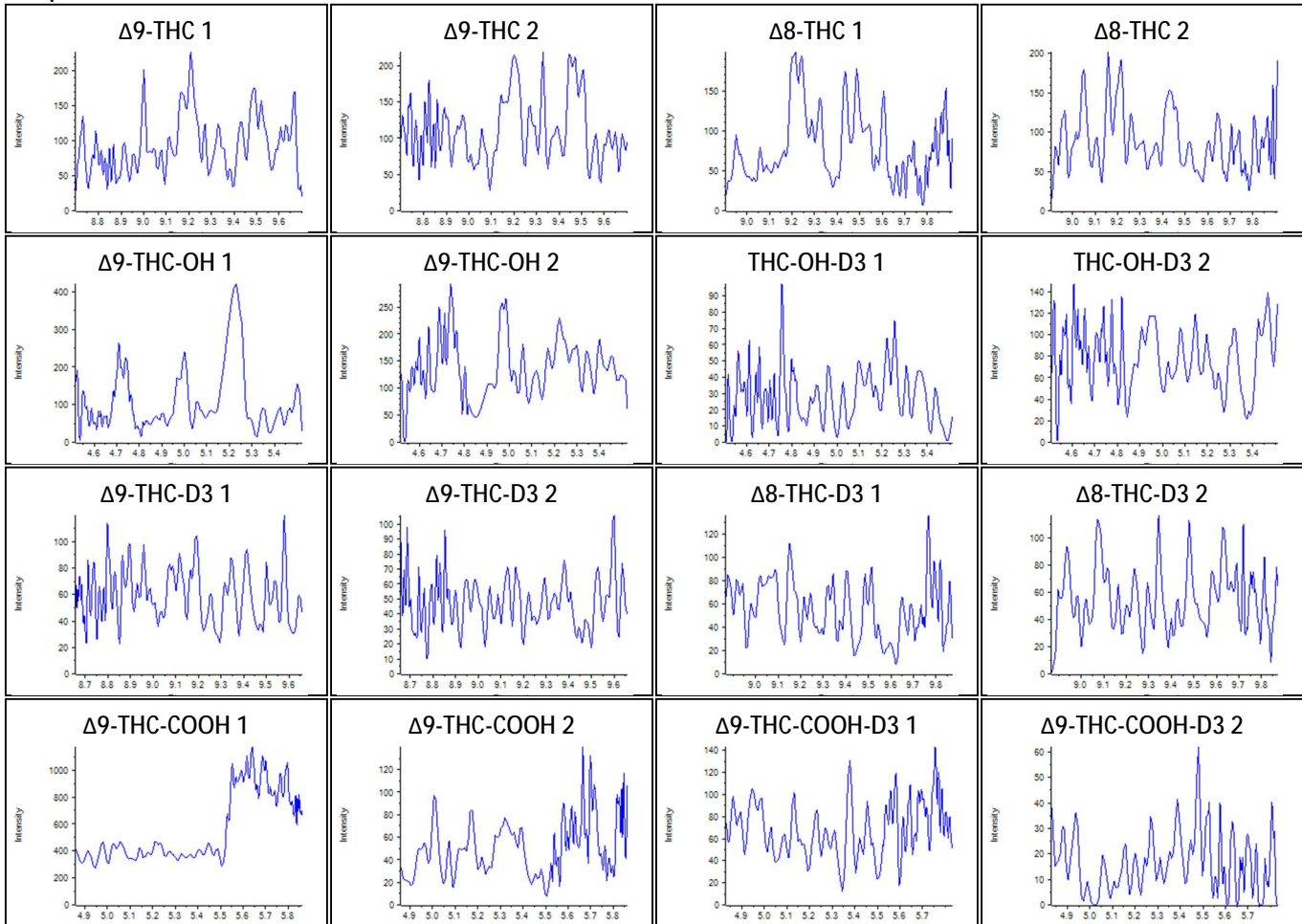
Sample Name: Cannabigerolic Acid



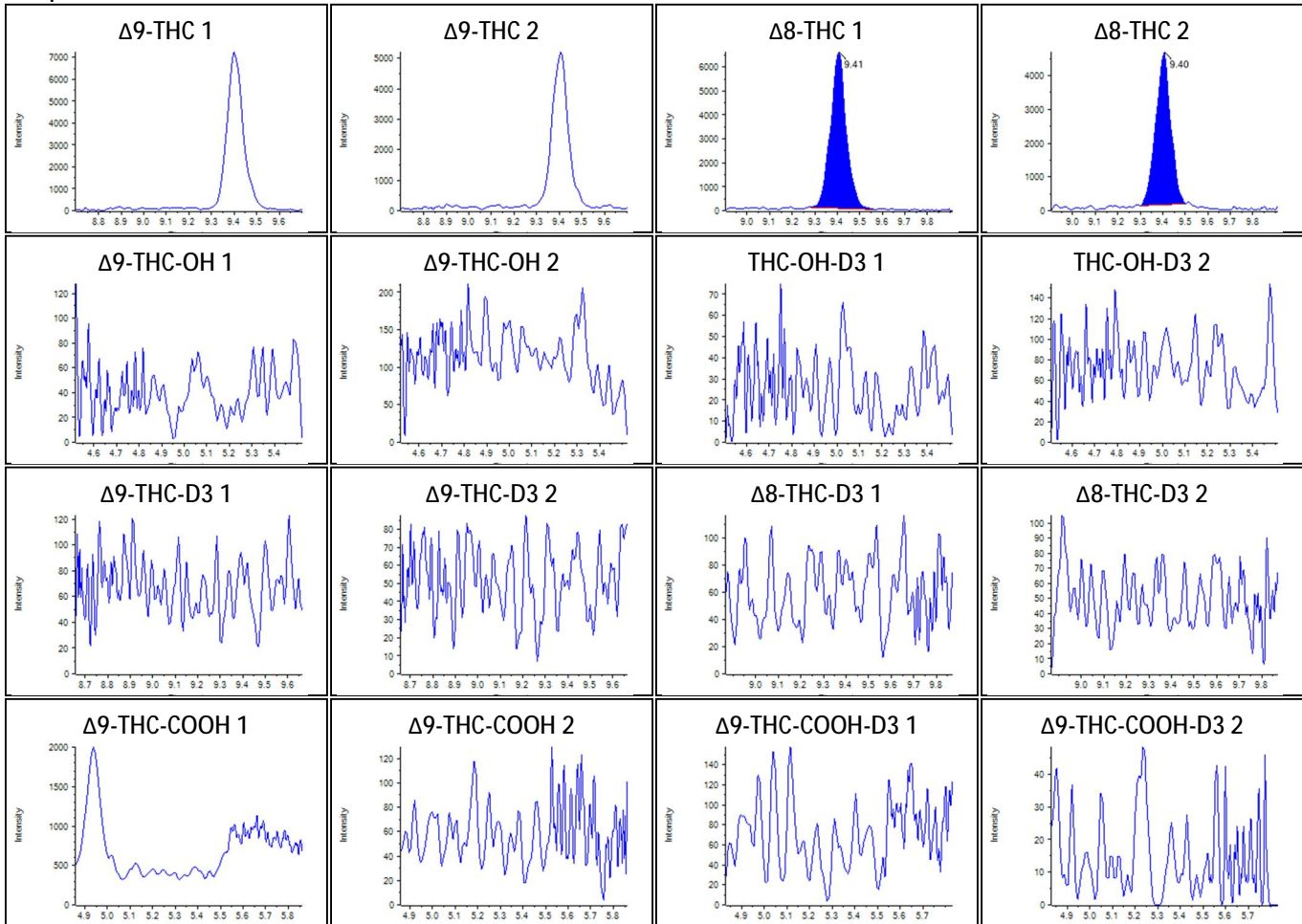
Sample Name: Cannabigerol



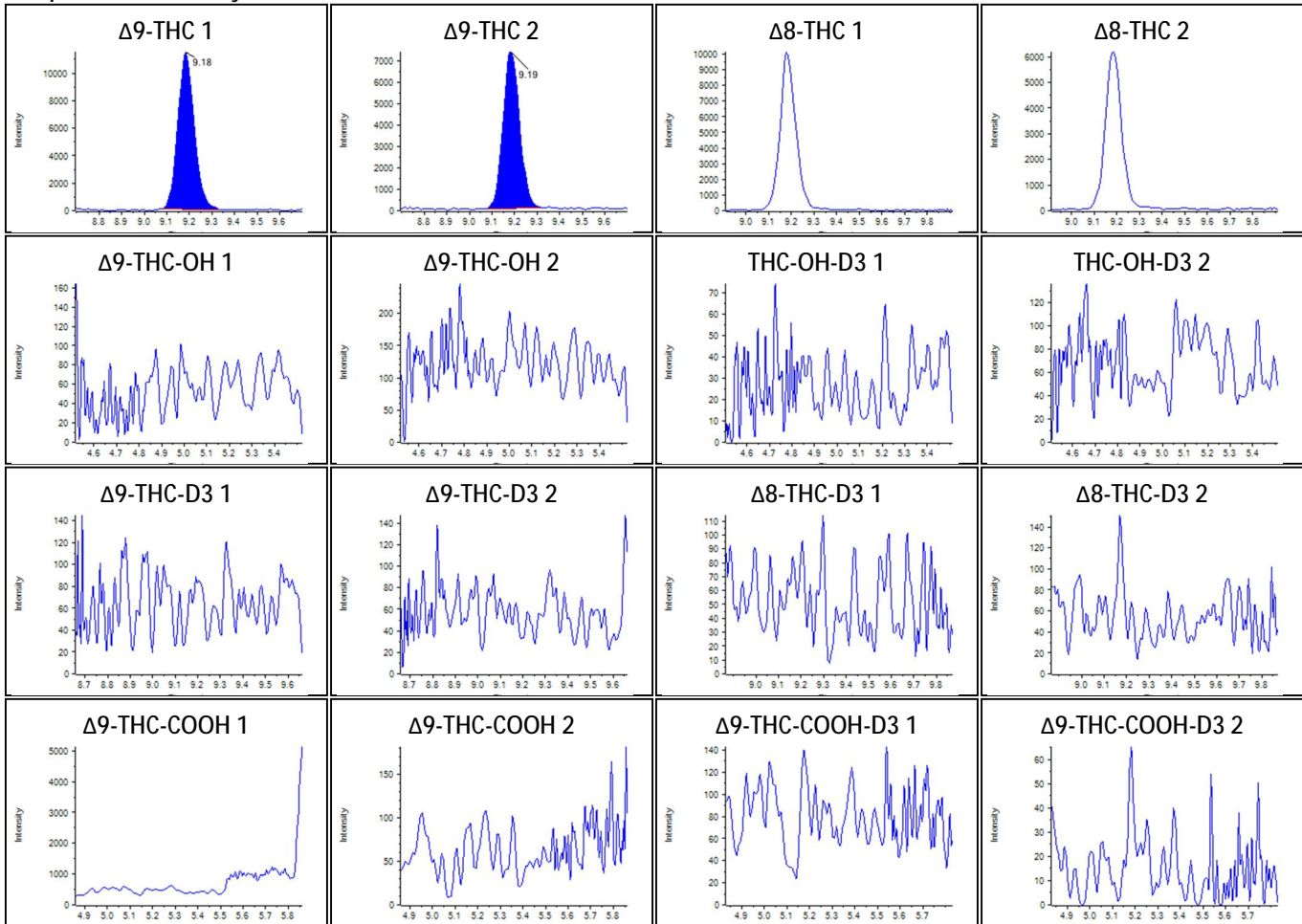
Sample Name: Cannabidiol



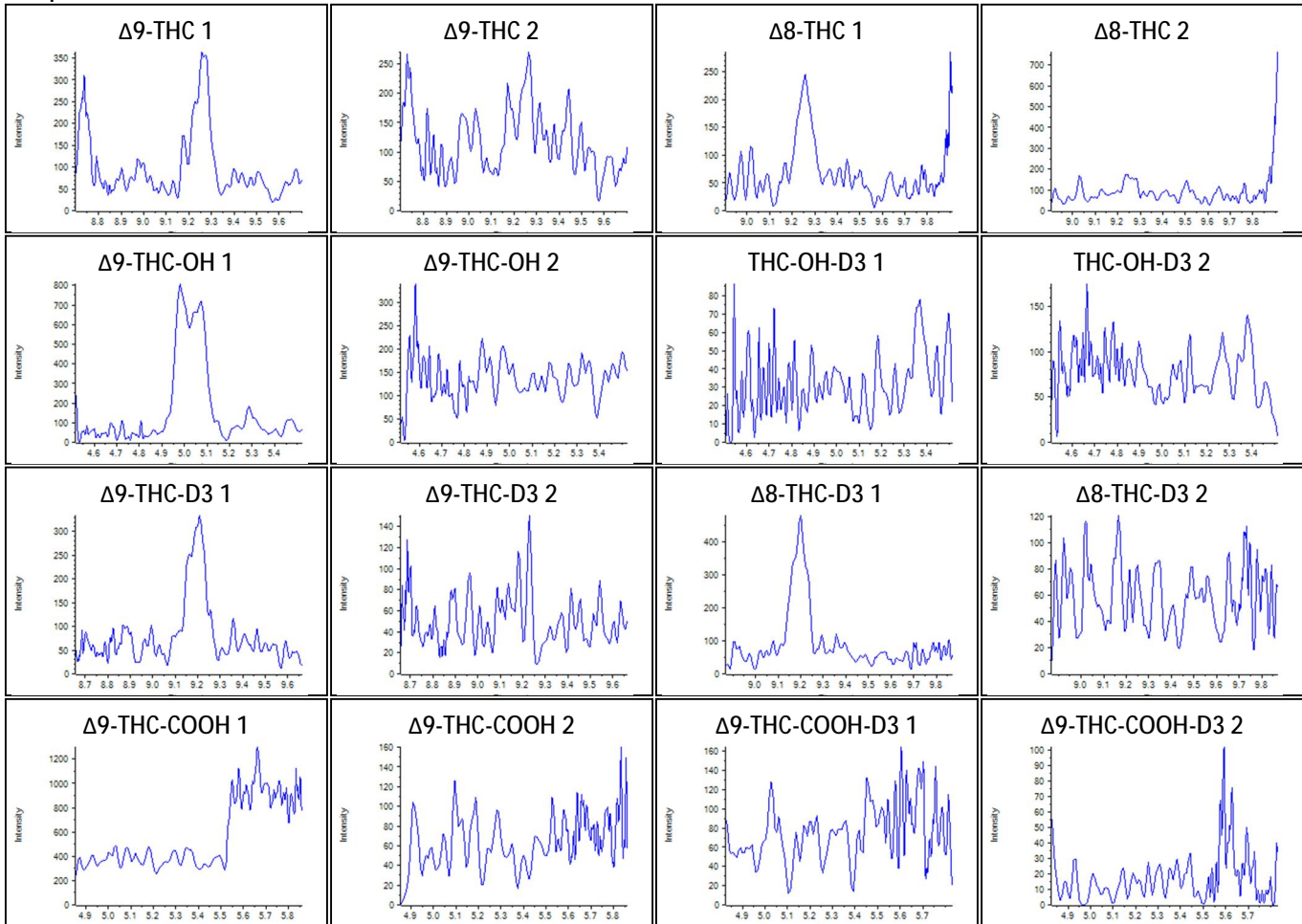
Sample Name: Cannabinol



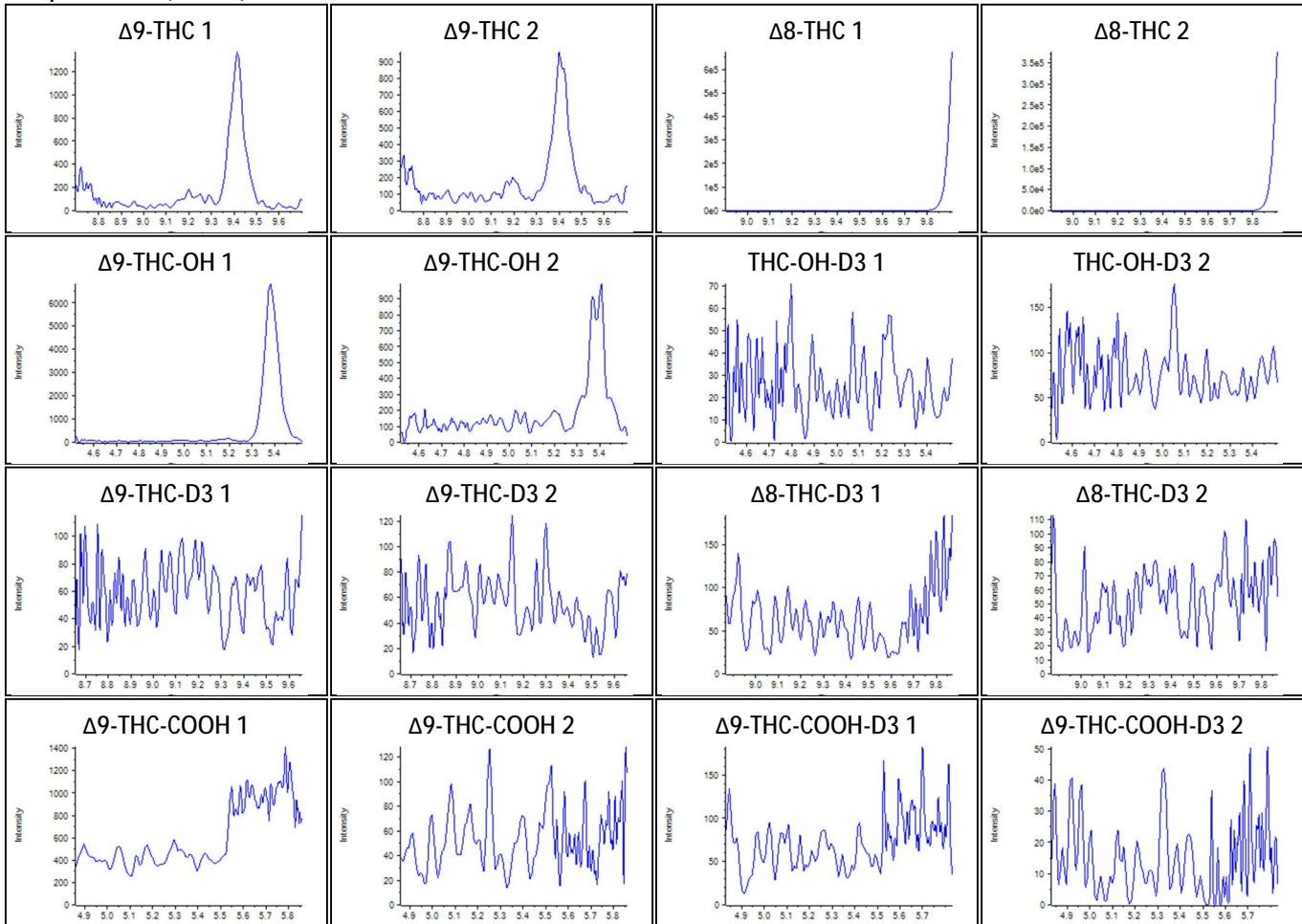
Sample Name: Tetrahydrocannabinolic Acid A



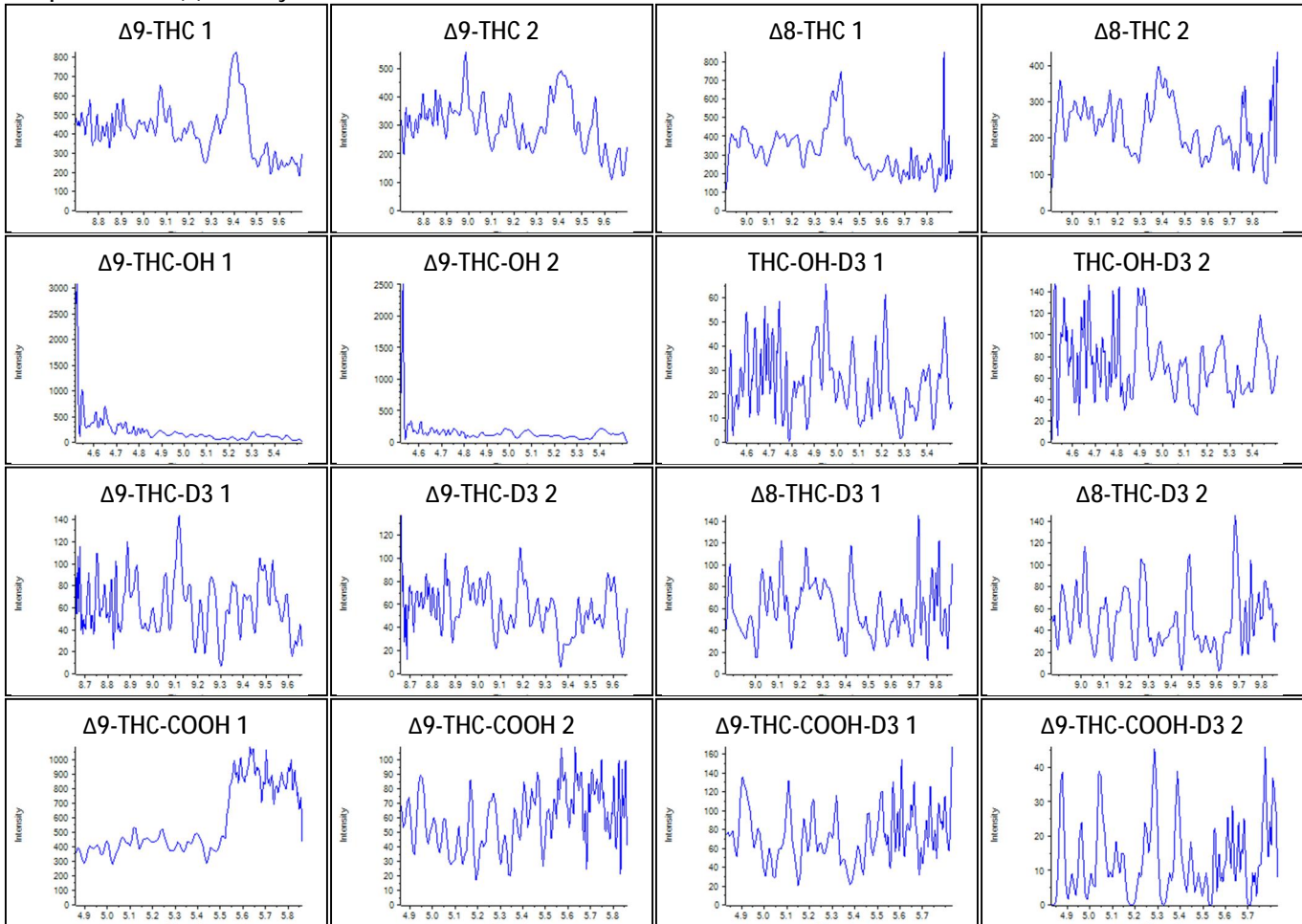
Sample Name: Cannabichromene



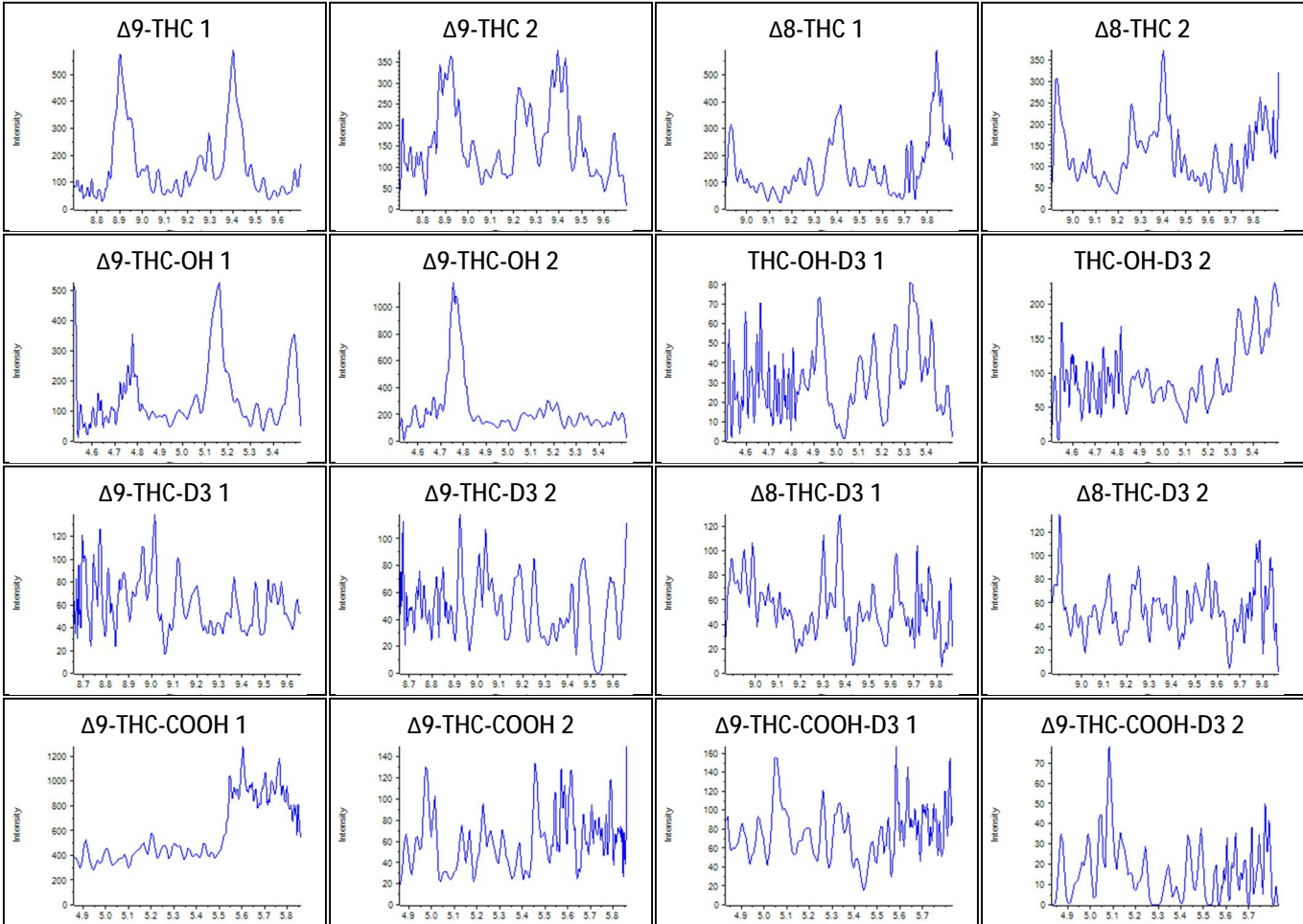
Sample Name: (6aR,9S)-Delta 10-THC



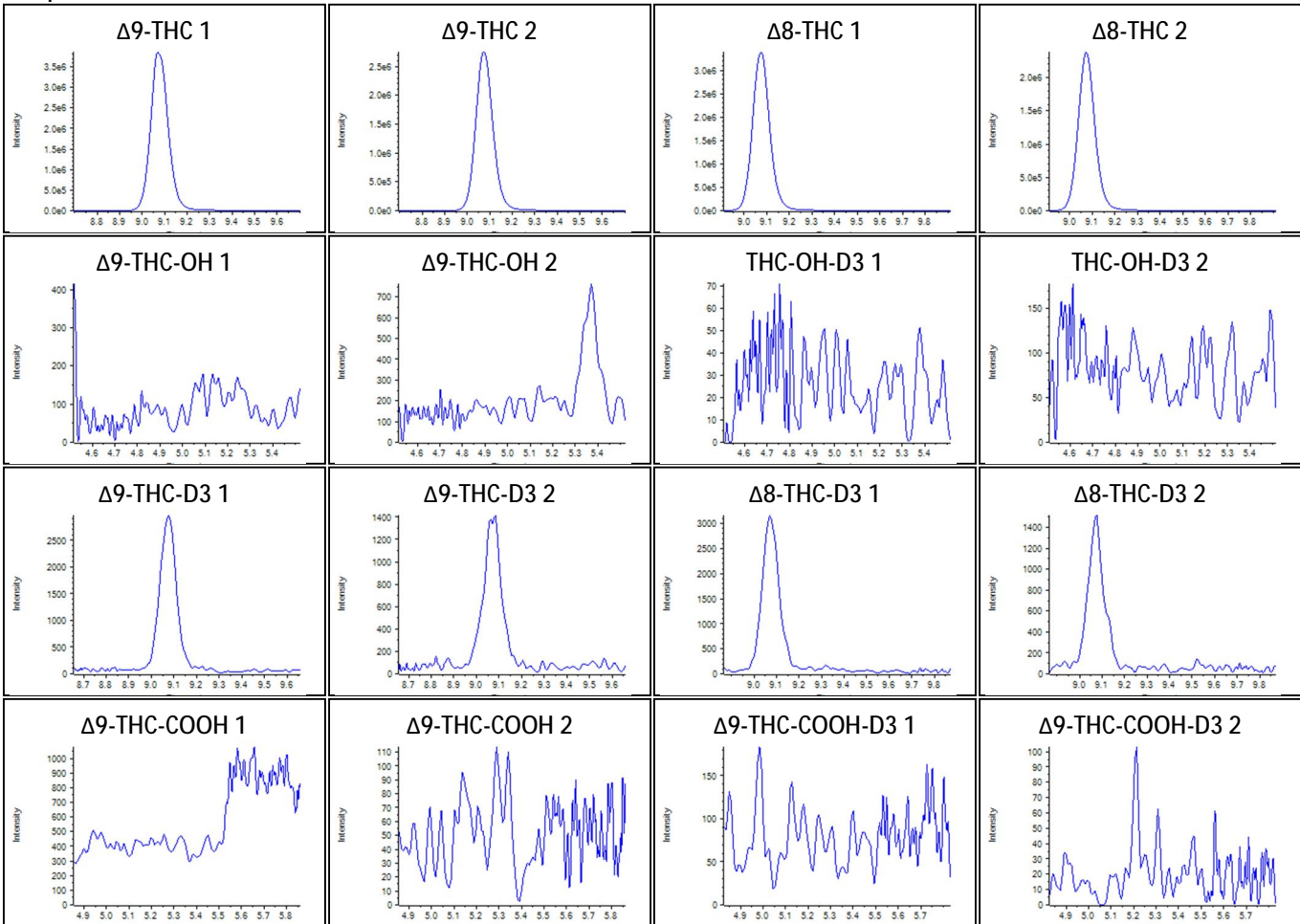
Sample Name: 9(R)-Hexahydrocannabinol



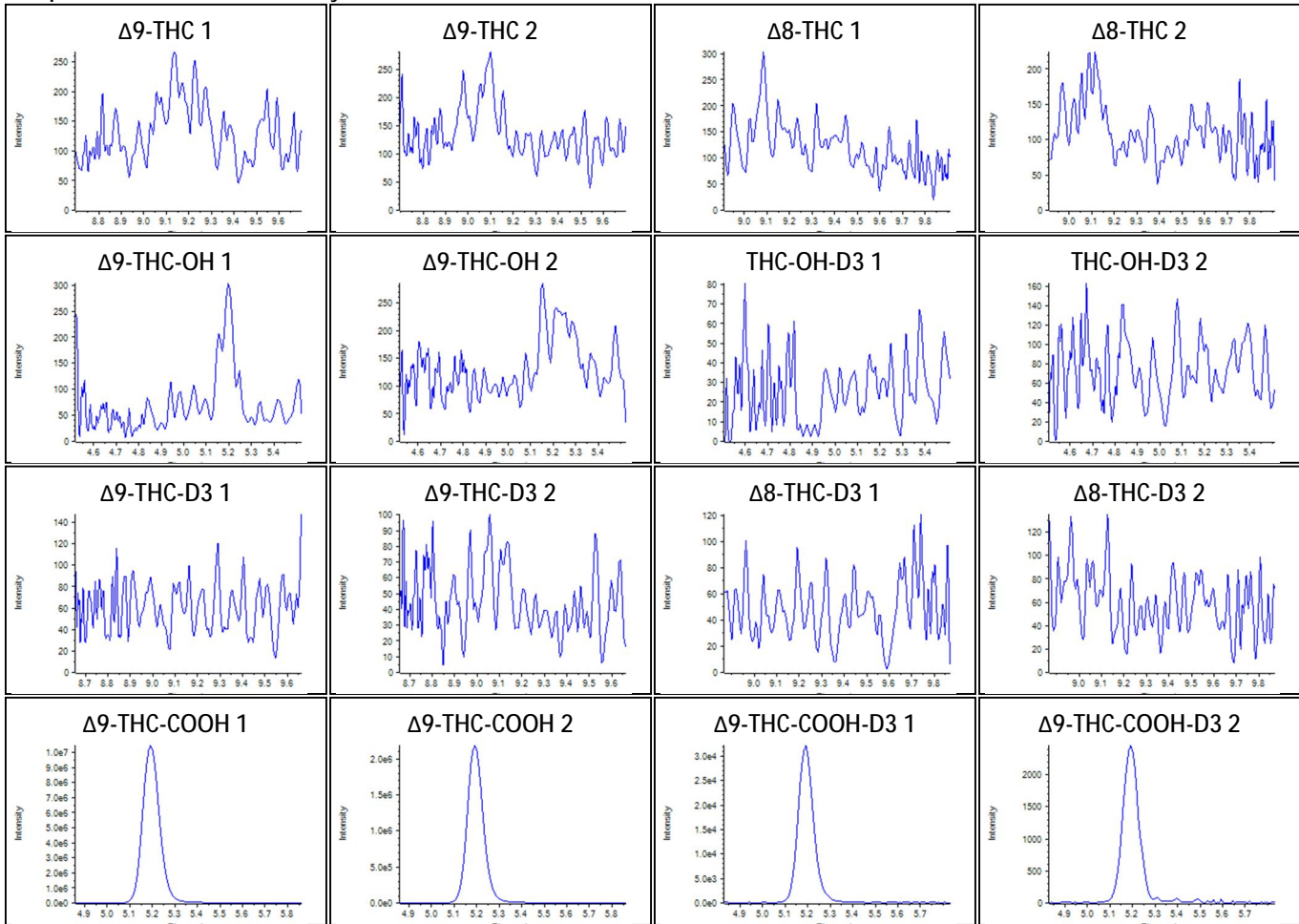
Sample Name: 9(R)-delta 6a,10a-THC



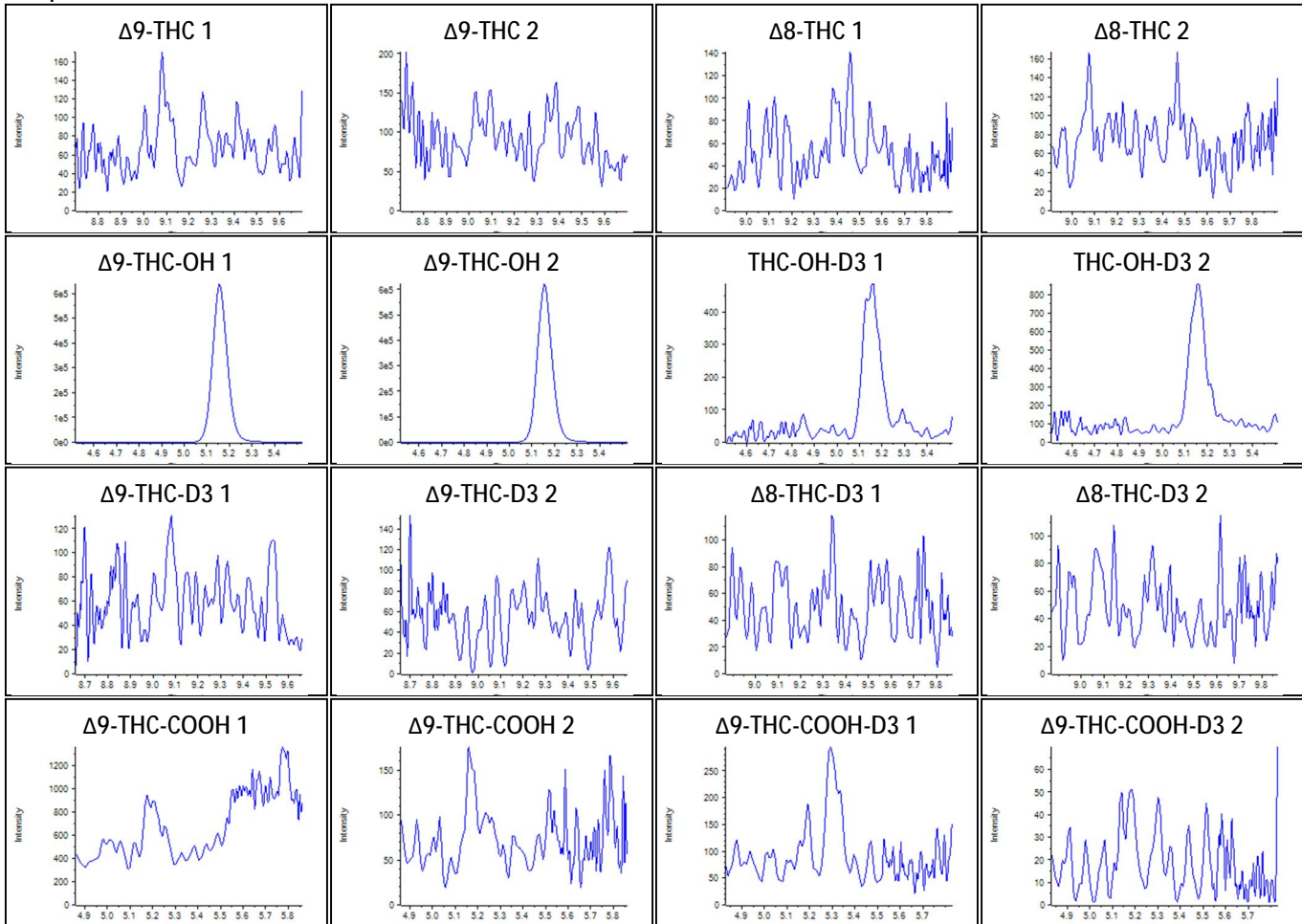
Sample Name: exo THC



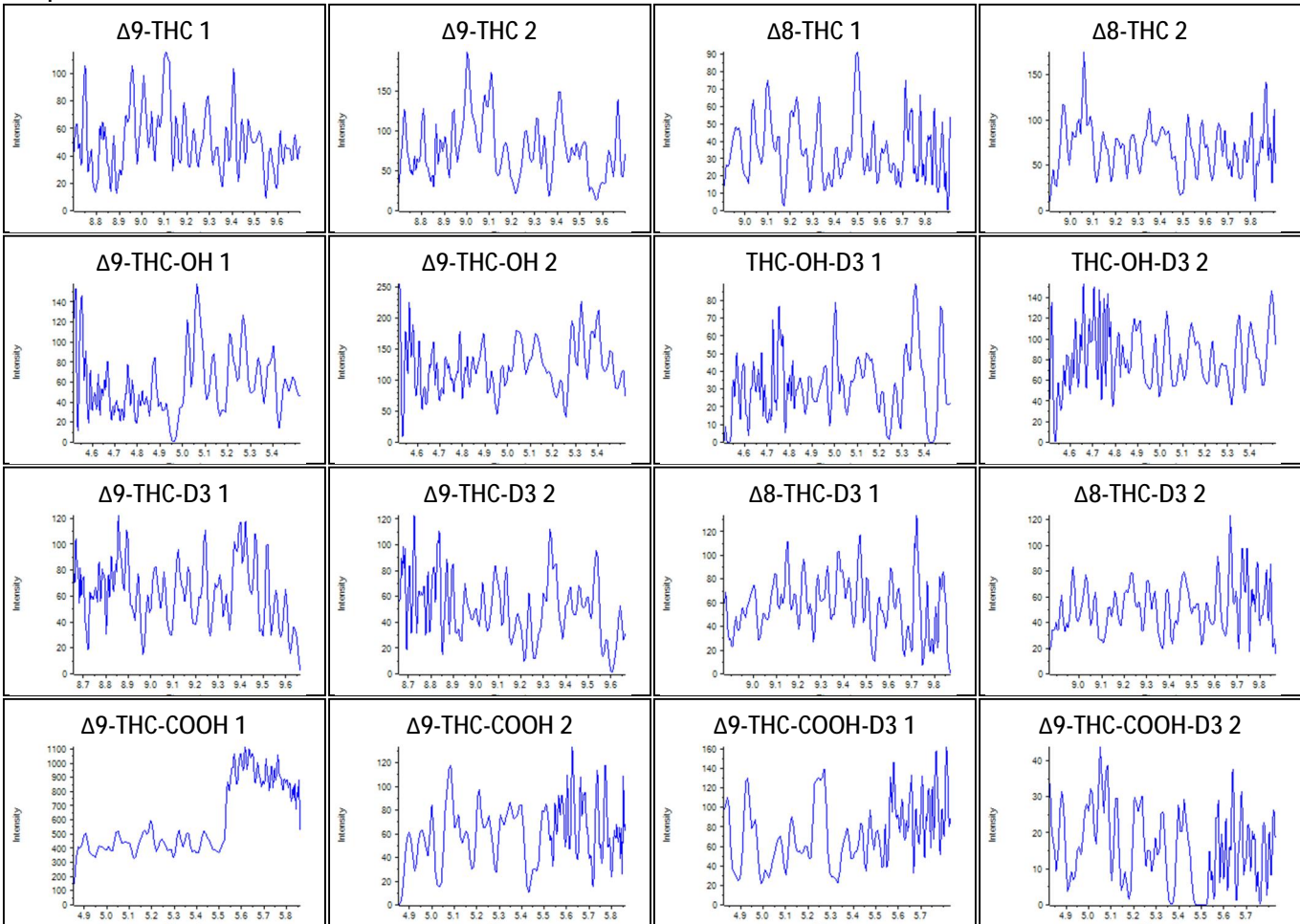
Sample Name: 11-nor-9-carboxy-delta 8-THC



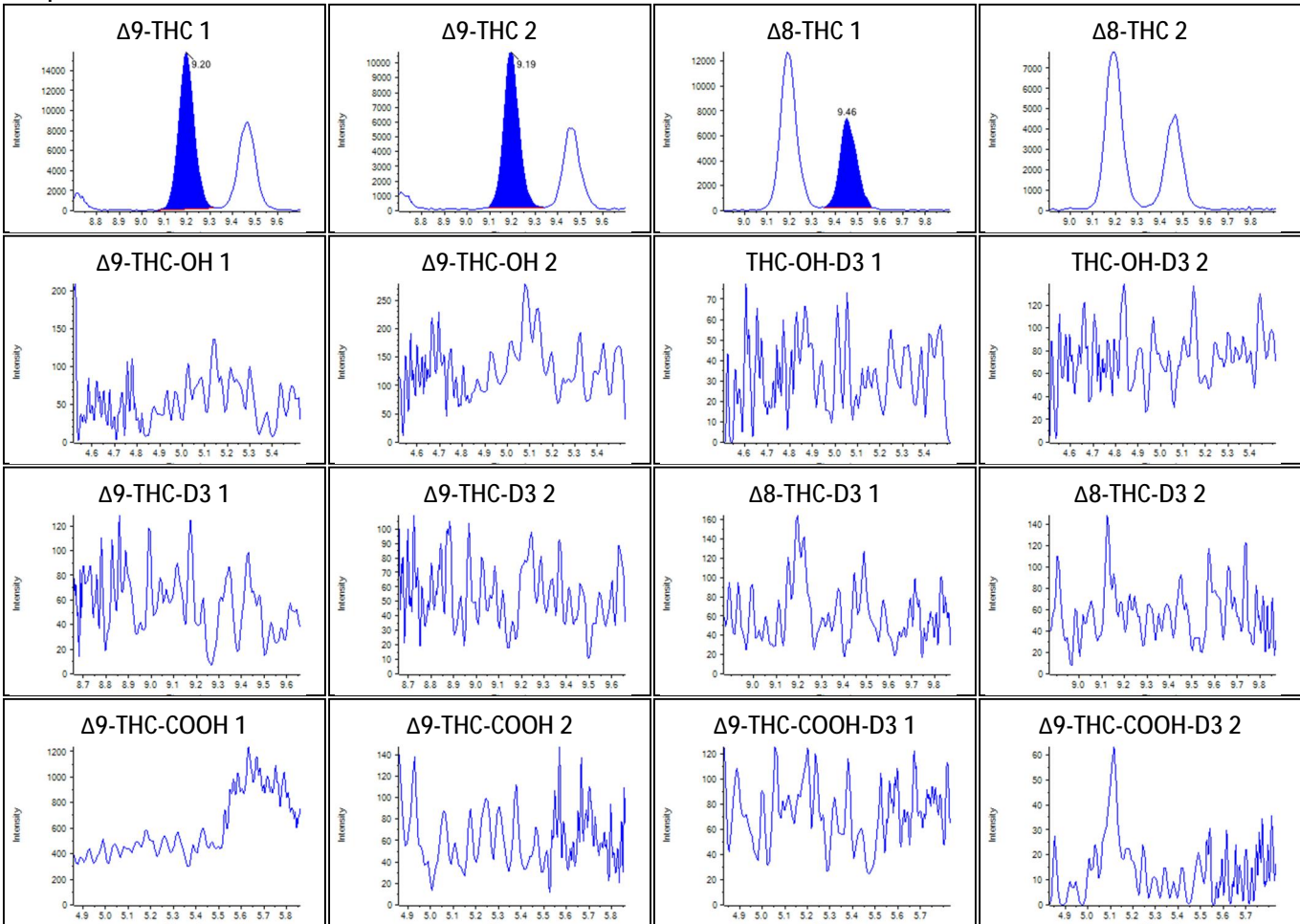
Sample Name: 11-OH-delta 8-THC



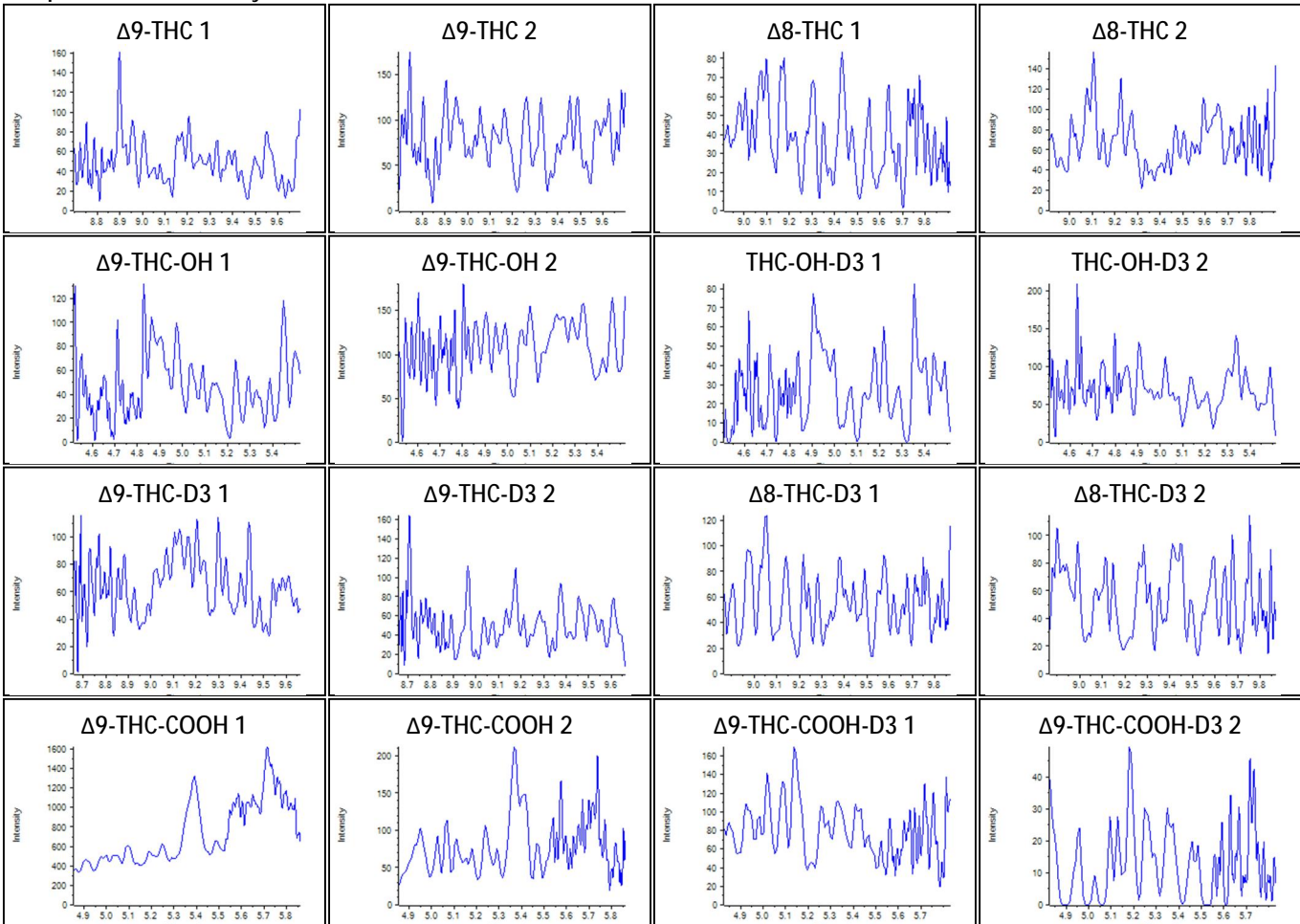
Sample Name: THC-O



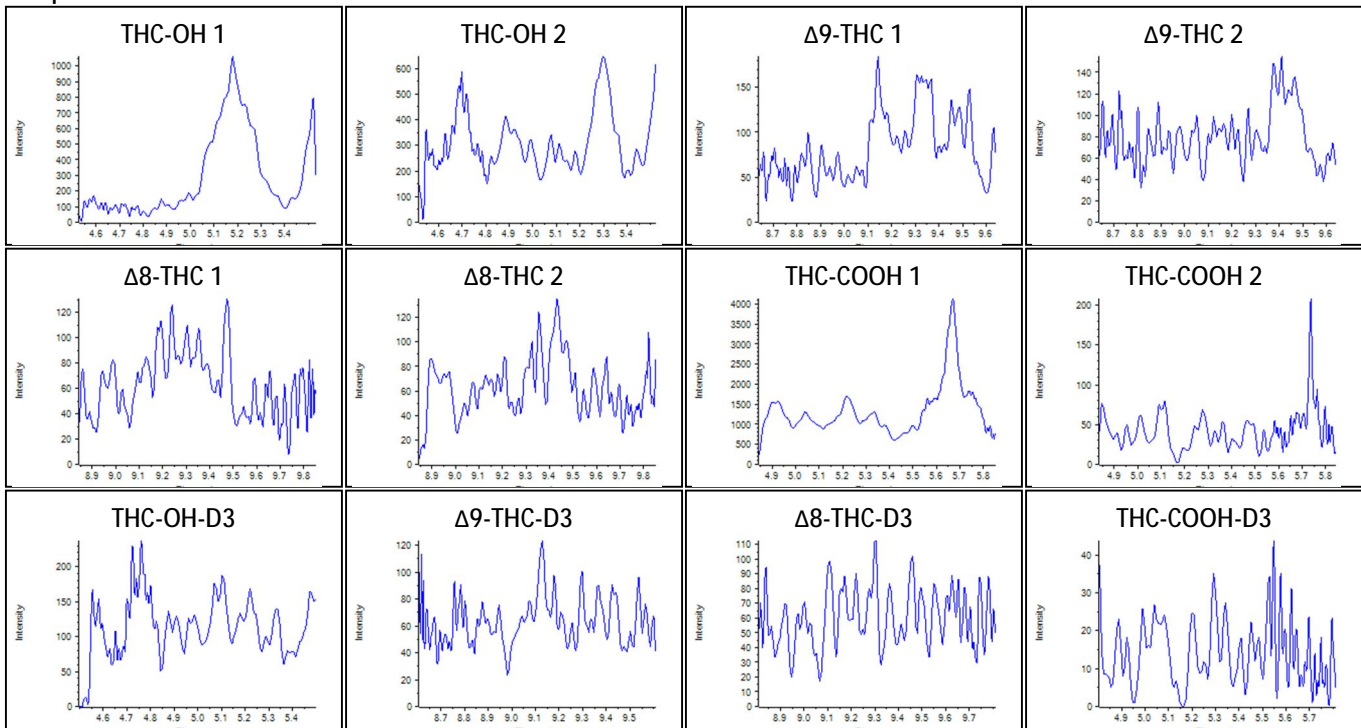
Sample Name: THC-P



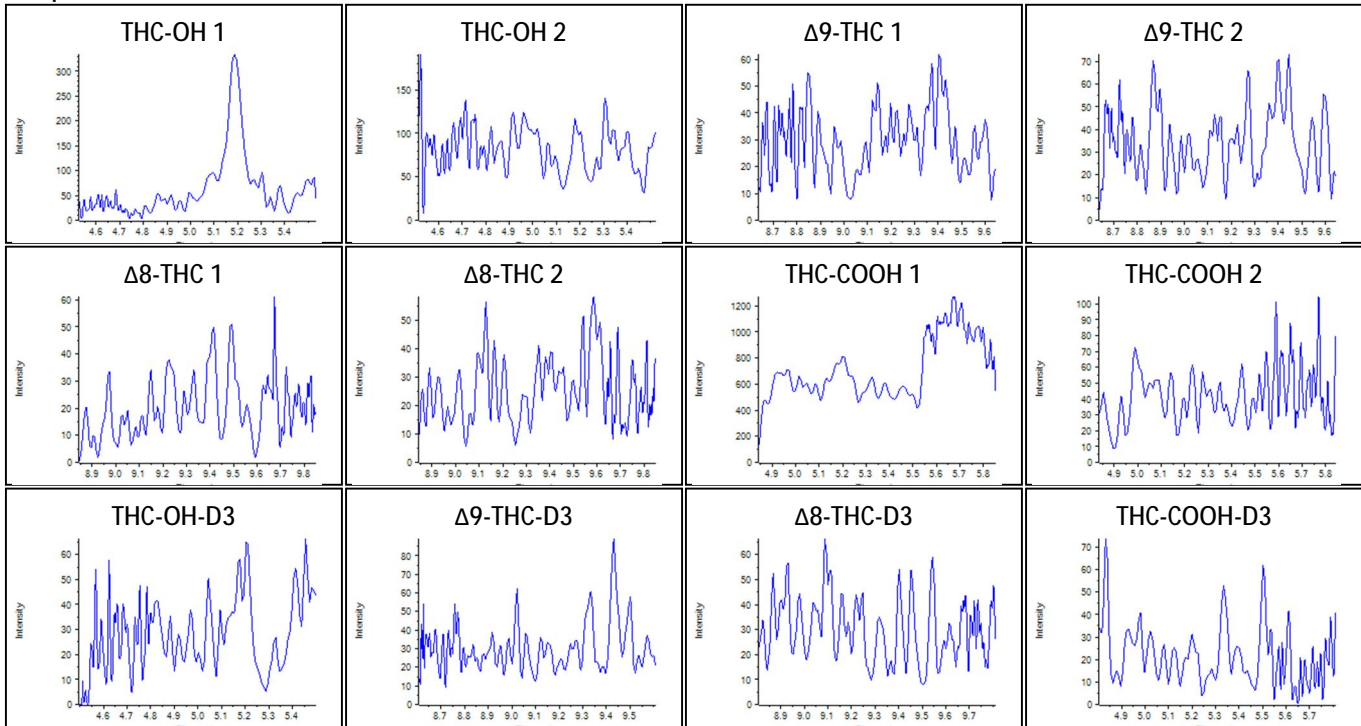
Sample Name: 7-carboxy cannabidiol



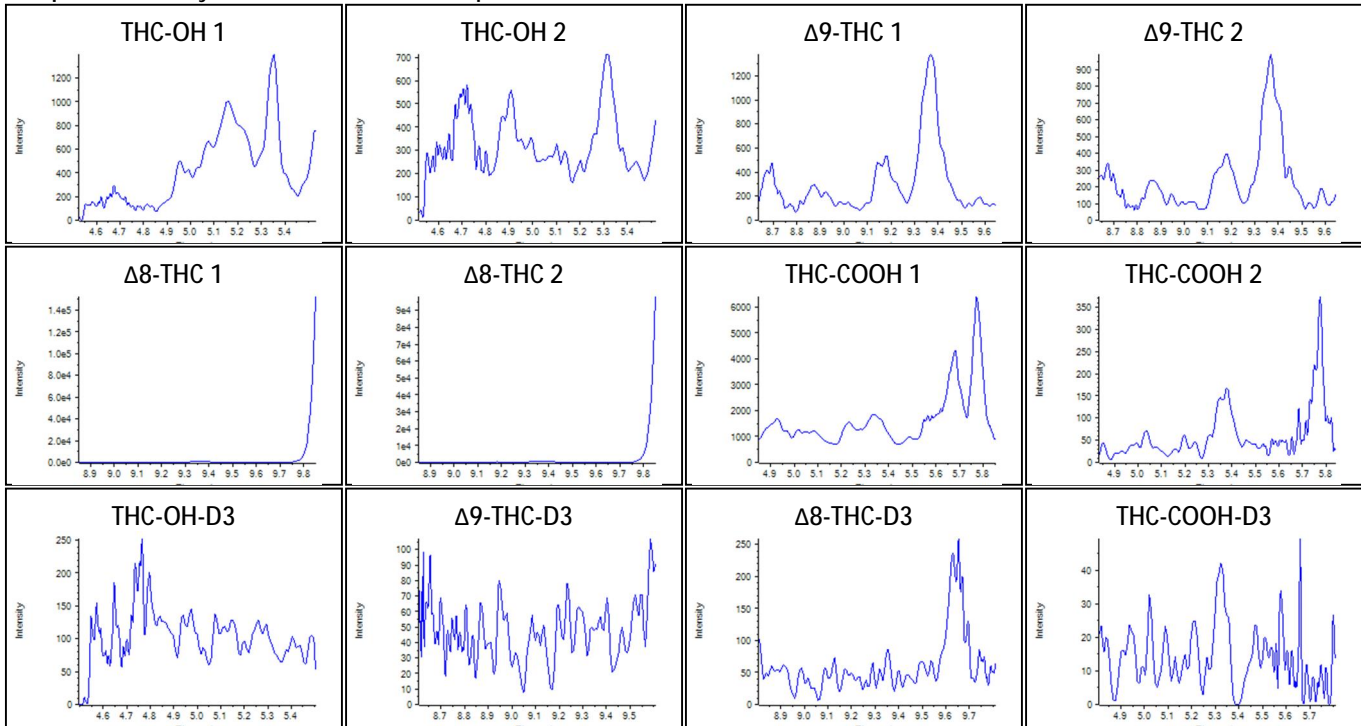
Sample Name: MSP and ES Mixes



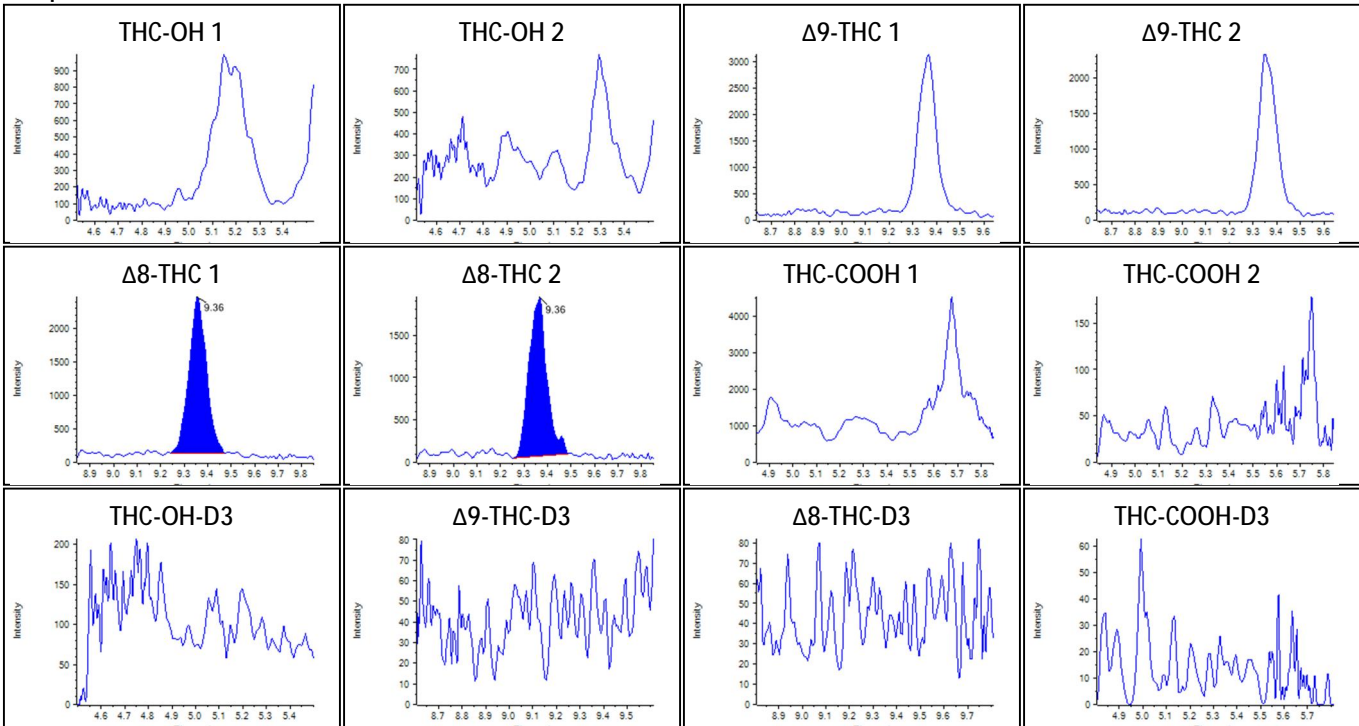
Sample Name: IM 1-7 and SC Mix 1,3



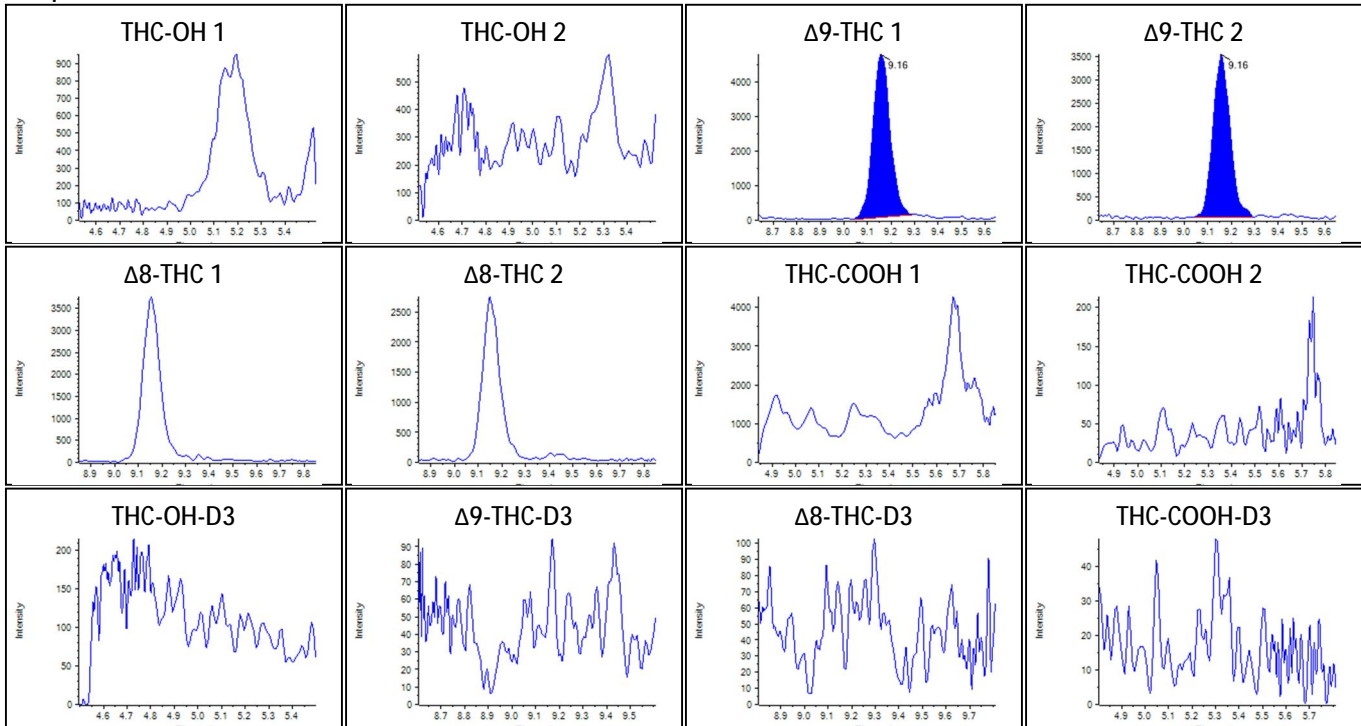
Sample Name: Phytocannabinoids and atropine



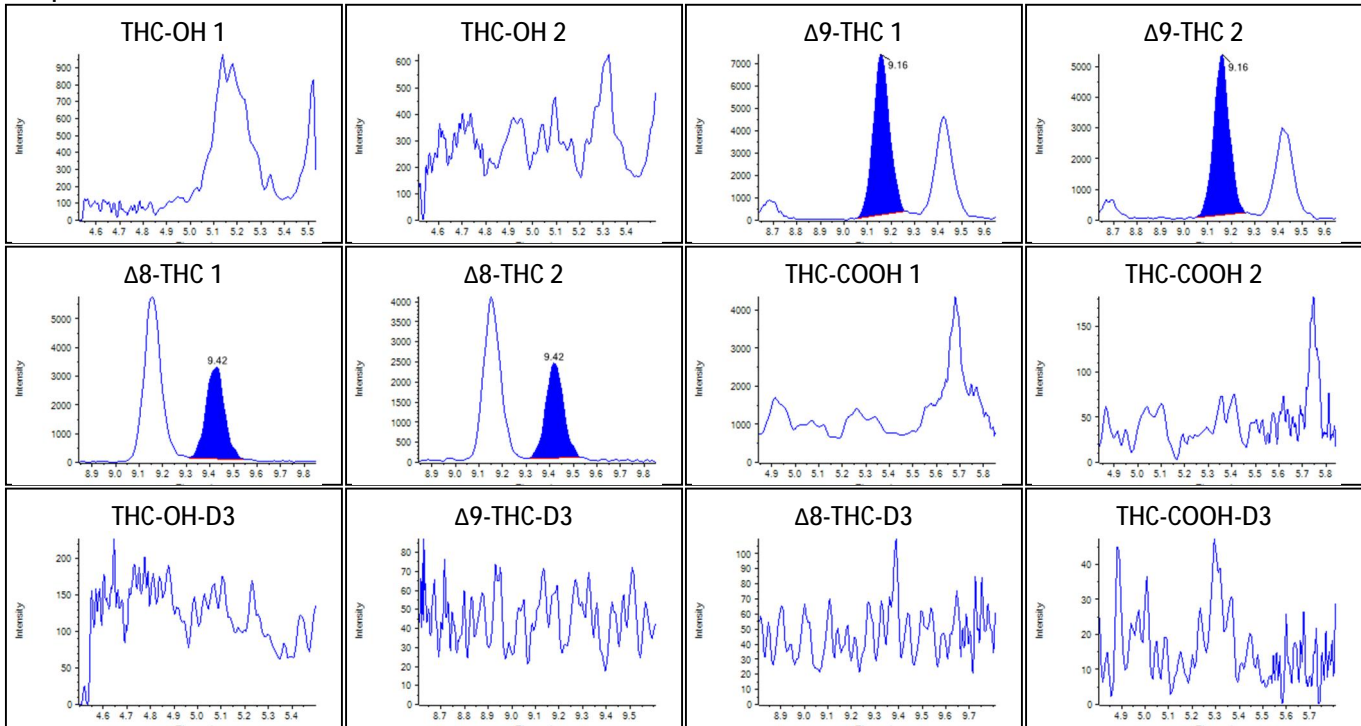
Sample Name: CBN



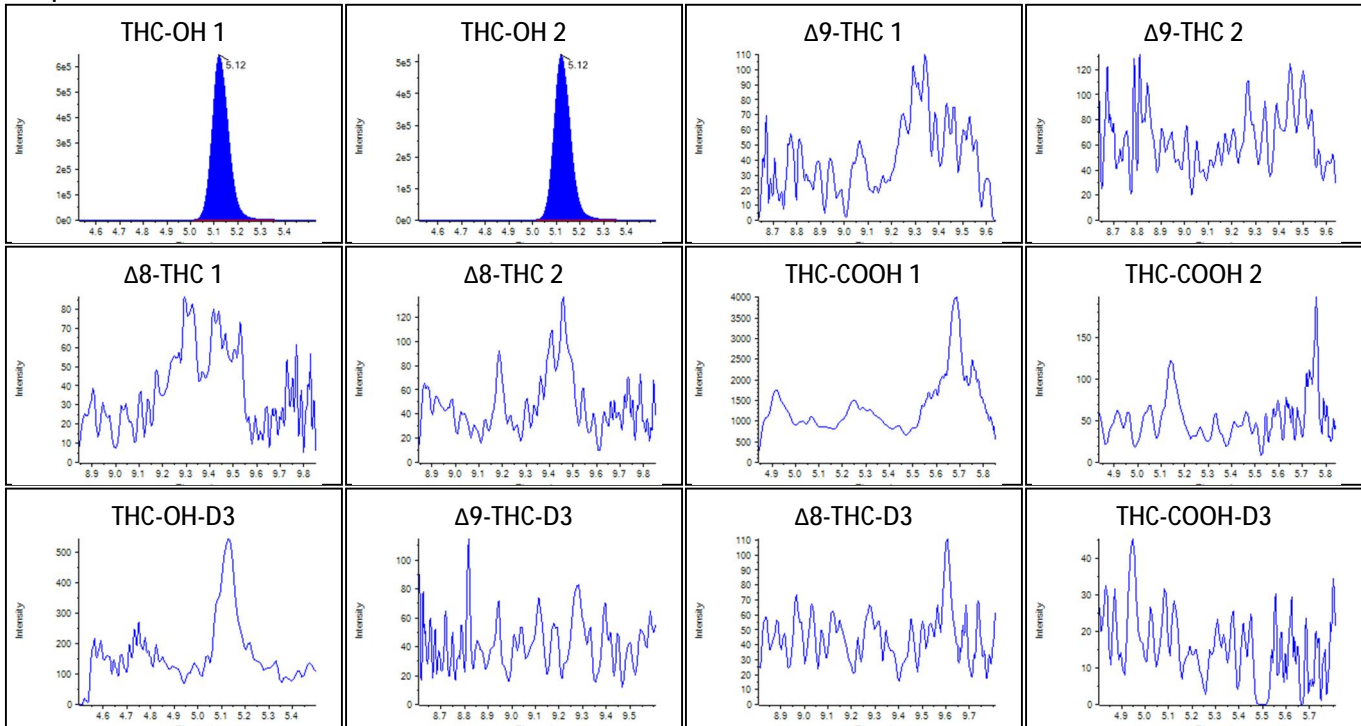
Sample Name: THCA-A



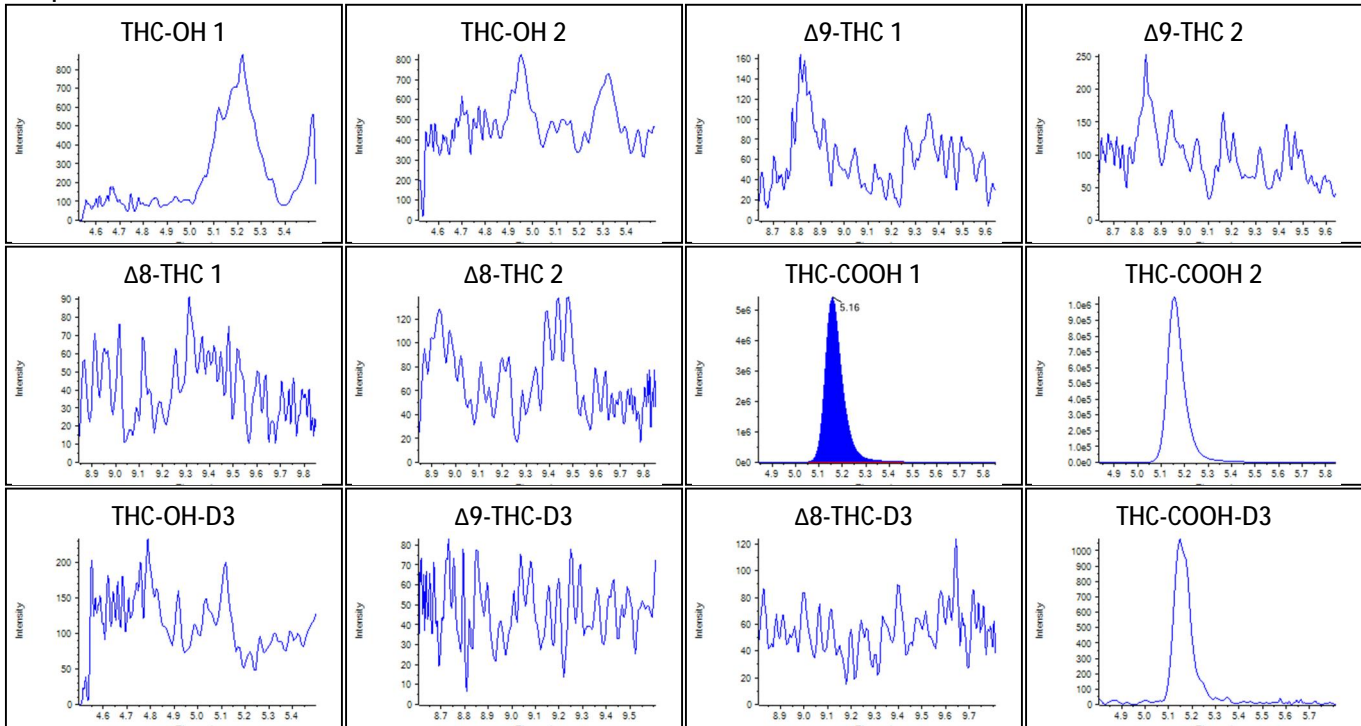
Sample Name: THC-P



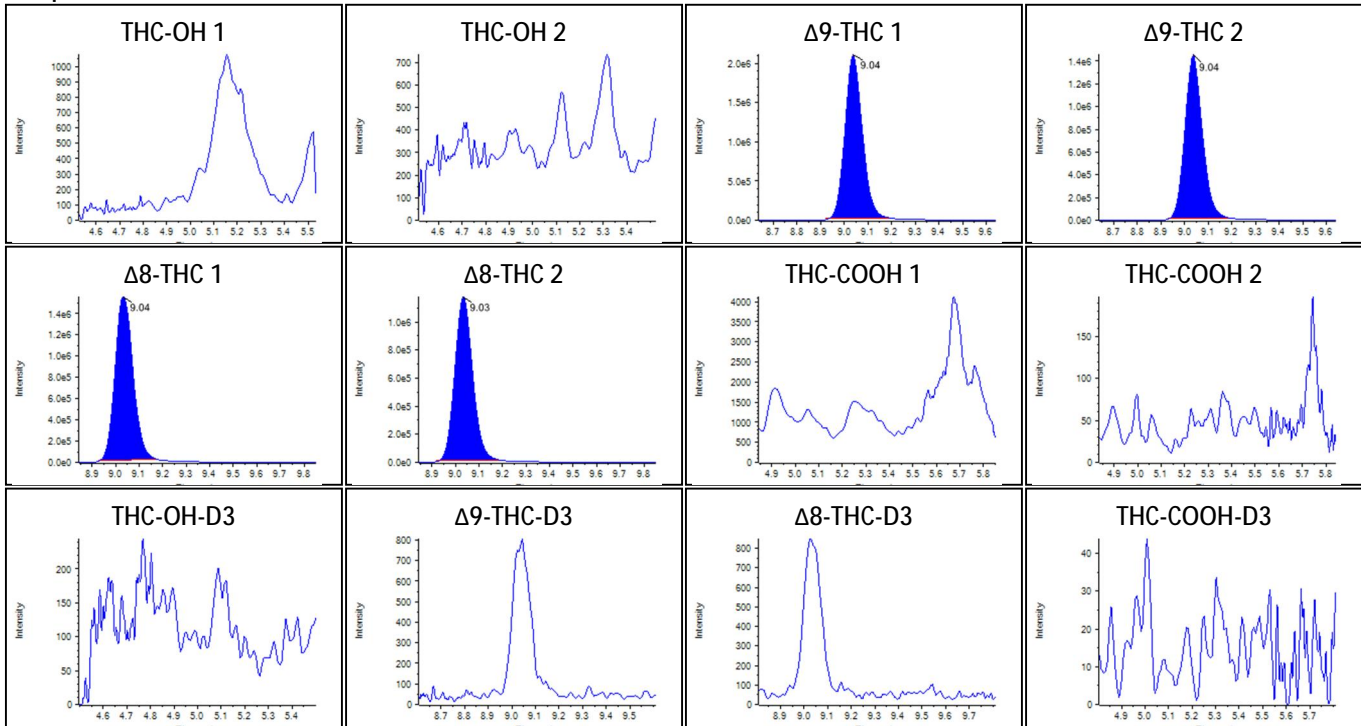
Sample Name: delta8-OH



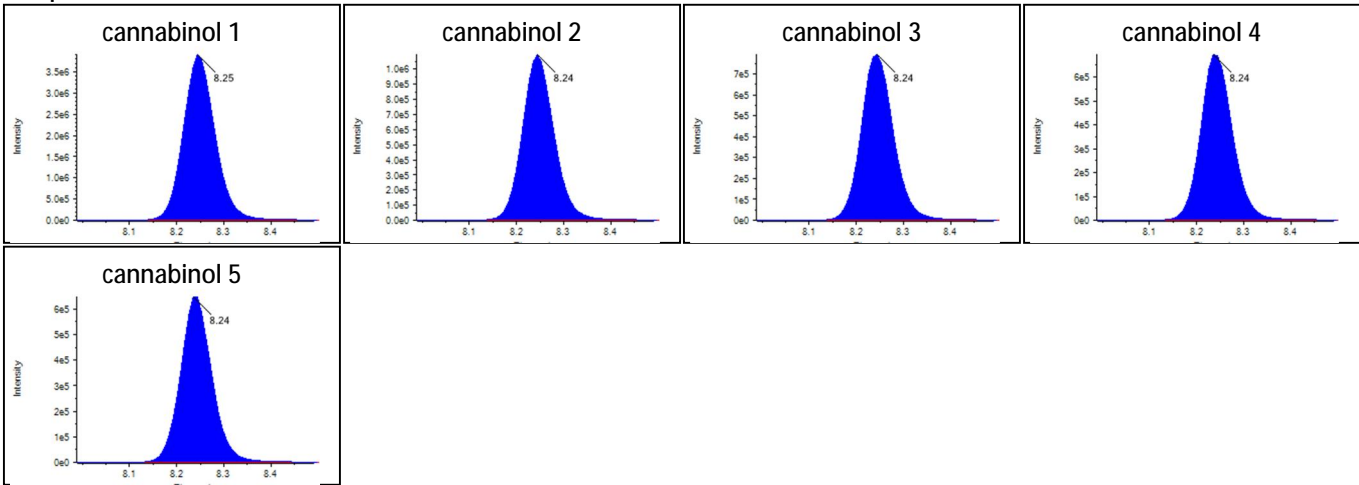
Sample Name: delta8-COOH



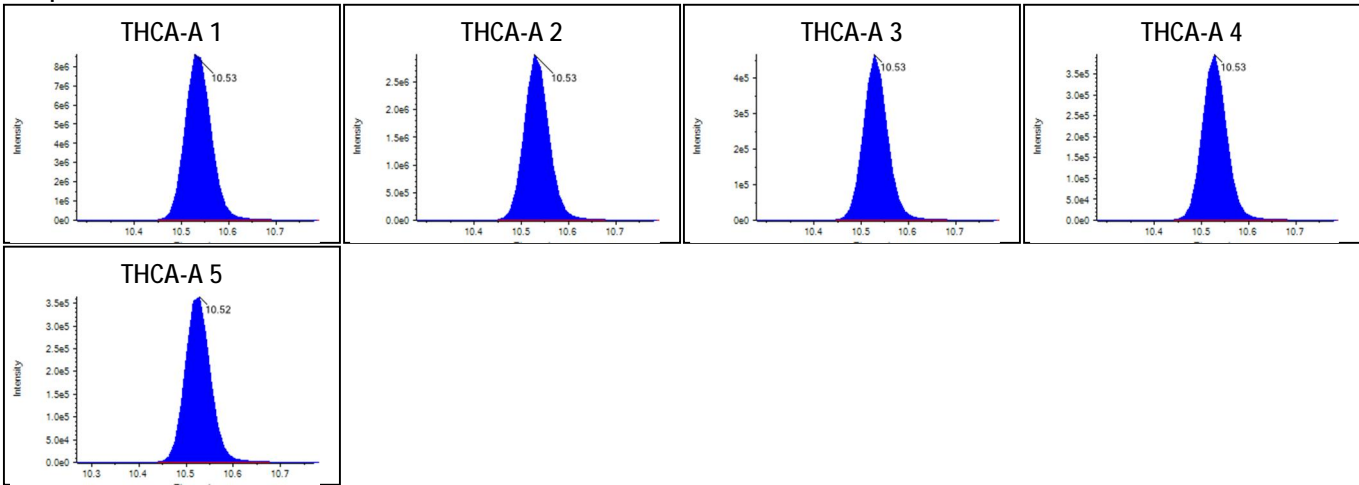
Sample Name: exo-THC



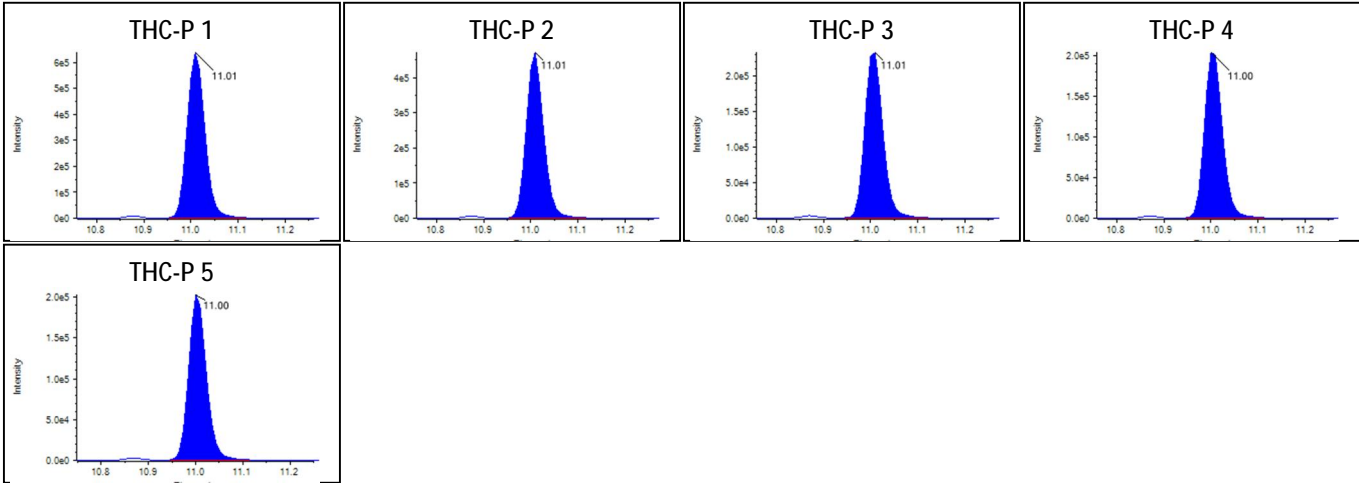
Sample Name: cannabinol unscheduled



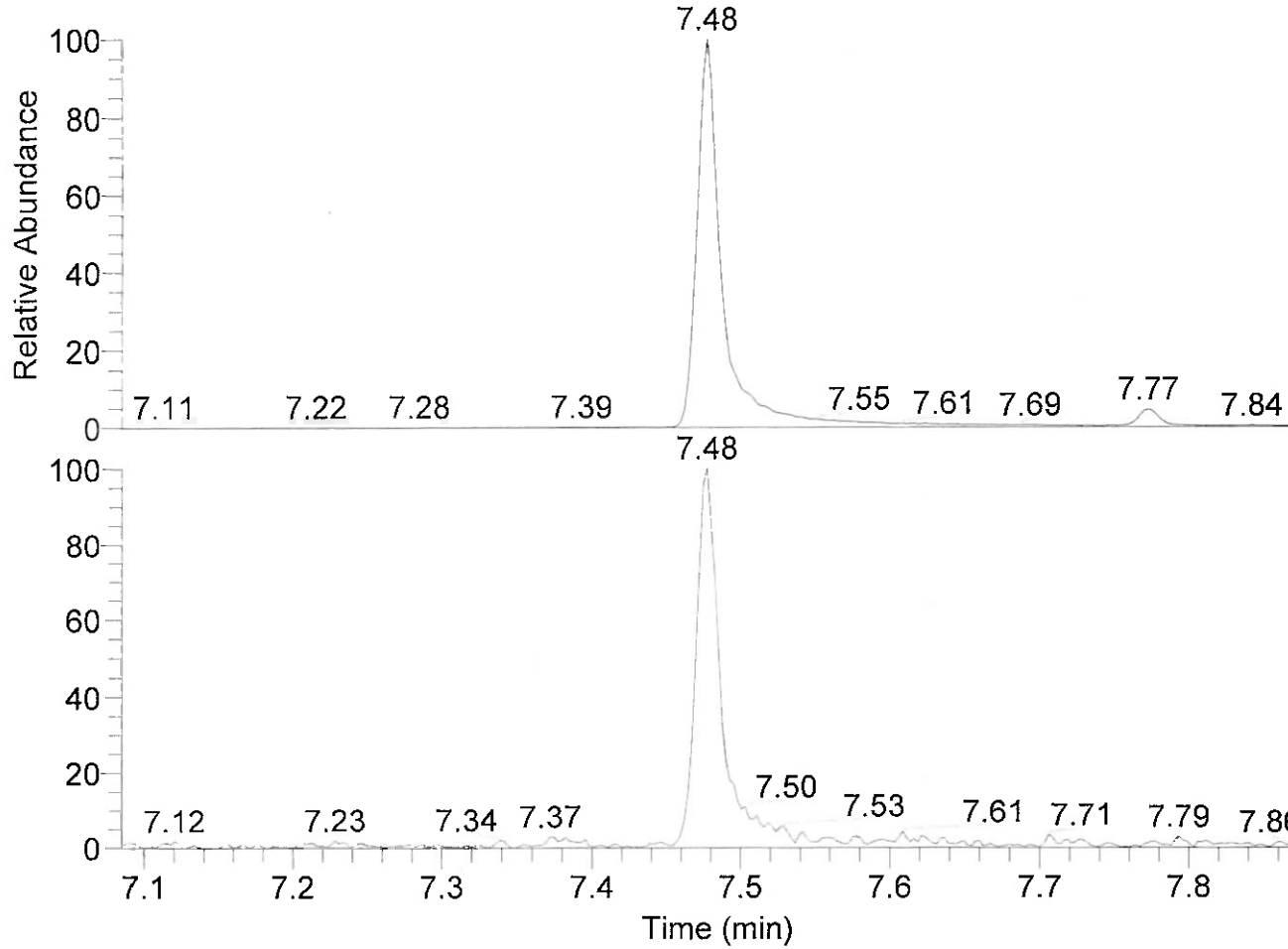
Sample Name: THCA-A unscheduled



Sample Name: THC-P unscheduled



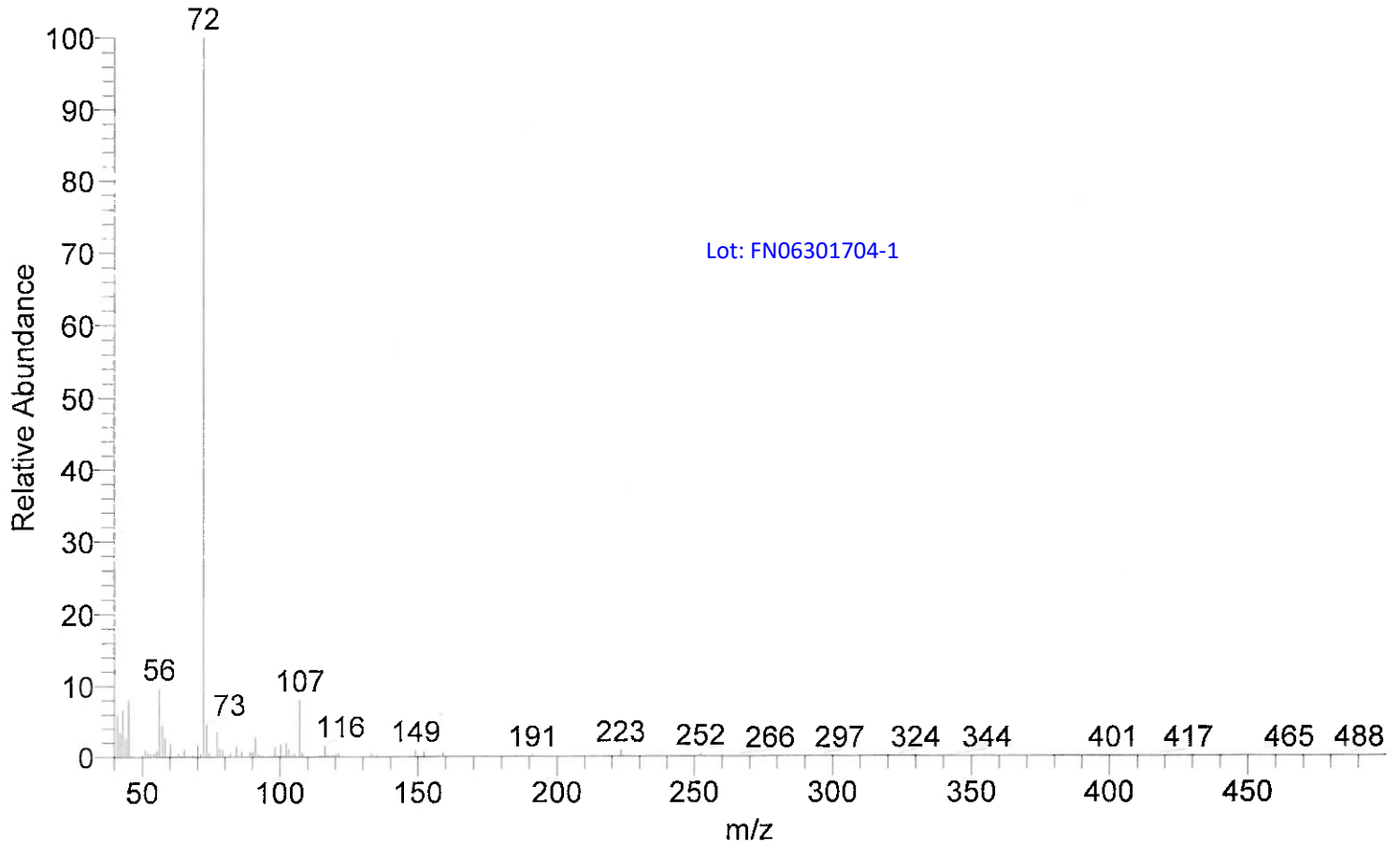
RT: 7.09 - 7.88



NL:
1.55E8
m/z=
71.50-72.50
MS
metoprolol2022
0920_22092016
0054

NL:
1.25E6
m/z=
222.50-223.50
MS
metoprolol2022
0920_22092016
0054

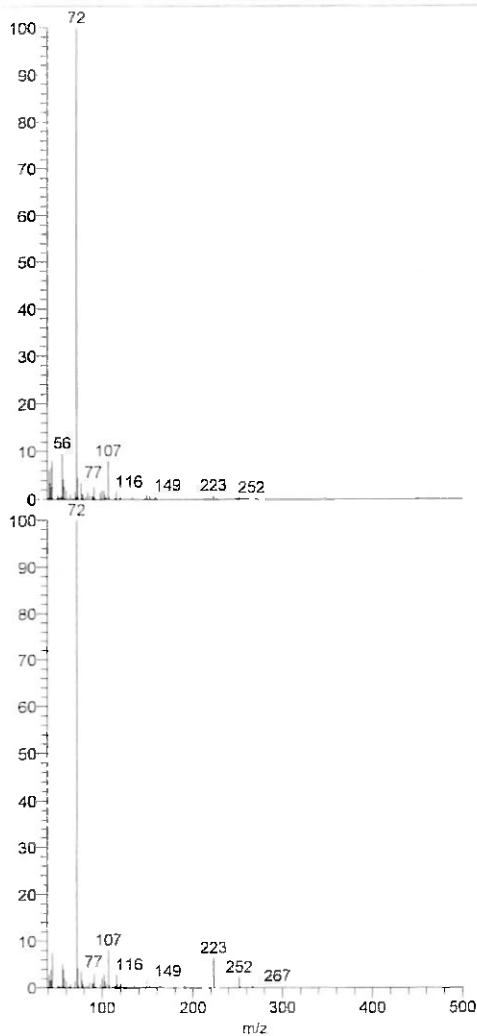
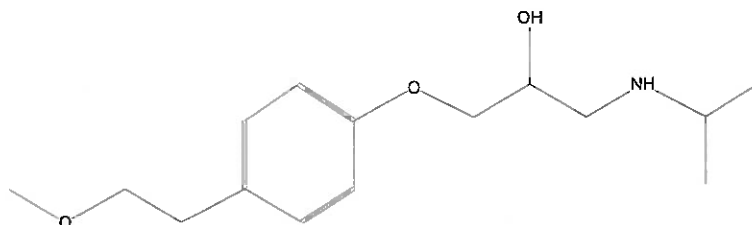
metoprolol20220920_220920160054 #2132-2134 RT: 7.47-7.48 AV: 3 SB: 6 7.45-7.46 , 7.53-7.54 NL:
T: {0,0} + c EI Full ms [40.00-500.00]



Lot: FN06301704-1

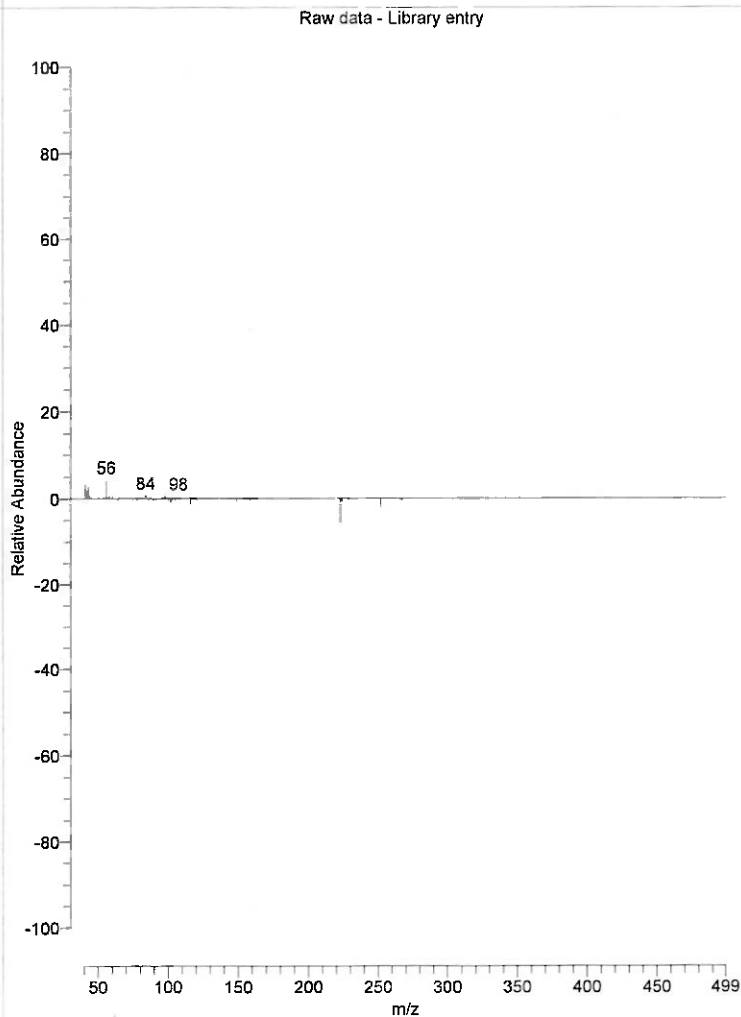
Hit	SI	RSI	Prob	Nan	Library Name
1	880	882	44.16	Met	SWGDRUG
2	878	878	40.74	Met	CaymanSpectralLibrary-NIST.H
3	845	846	10.66	Met	DD2010
4	845	846	10.66	Met	DD2010
5	762	766	1.04	Ater	SWGDRUG
6	754	776	0.77	Bisc	SWGDRUG
7	753	753	1.04	Ater	CaymanSpectralLibrary-NIST.H
8	749	780	0.62	Bet	SWGDRUG
9	748	757	1.04	Ater	DD2010
10	739	748	1.04	Ater	DD2010
11	723	736	0.62	Bet	DD2010
12	720	787	0.17	N,N	DD2010
13	704	705	10.66	Met	DD2010
14	698	798	0.07	Met	DD2010
15	697	748	0.06	Met	SWGDRUG
16	696	714	0.06	Met	DD2010
17	695	748	0.06	Met	SWGDRUG
18	695	711	0.06	Alpr	SWGDRUG
19	694	711	0.06	Ater	DD2010
20	693	780	0.05	3-4-	SWGDRUG
21	691	691	10.66	Met	DD2010
22	686	787	0.05	N,N	DD2010
23	681	689	0.03	MDI	CaymanSpectralLibrary-NIST.H
24	680	780	0.03	N,N	DD2010
25	679	728	0.03	N-E	DD2010
26	678	763	0.03	4-EI	SWGDRUG
27	678	756	0.03	N,N	SWGDRUG
28	678	742	0.03	N-E	DD2010
29	678	738	0.03	N,N	DD2010
30	677	785	0.03	Mef	DD2010
31	677	765	0.03	Mef	SWGDRUG
32	677	734	0.03	N,N	DD2010
33	677	716	0.03	N,N	DD2010

Metoprolol
Formula C₁₅H₂₅NO₃, MW 267, CAS# 37350-58-6, Entry# 2997
Toprol



NL 9 99E2
metoprolol20220920_22092016005
4#2132-2134 RT 7.47-7.48 AV 3
SB 6 7.45-7.46 , 7.53-7.54 T
{0.0} + c EI Full ms [40.00-500.00]

NL 9 99E2
SI 880, RSI 882, SWGDRUG,
Entry# 2997, CAS# 37350-58-6,
Metoprolol



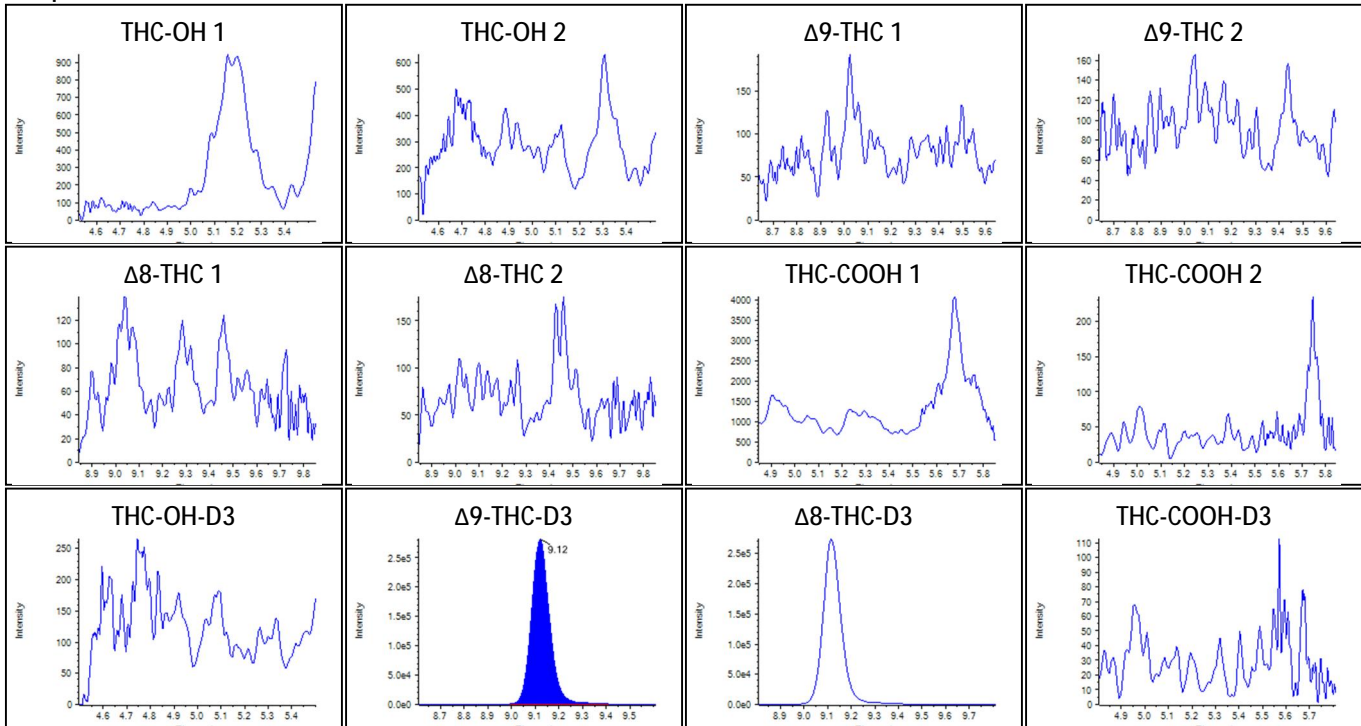
Raw data - Library entry

PANEL INTERFERENCES

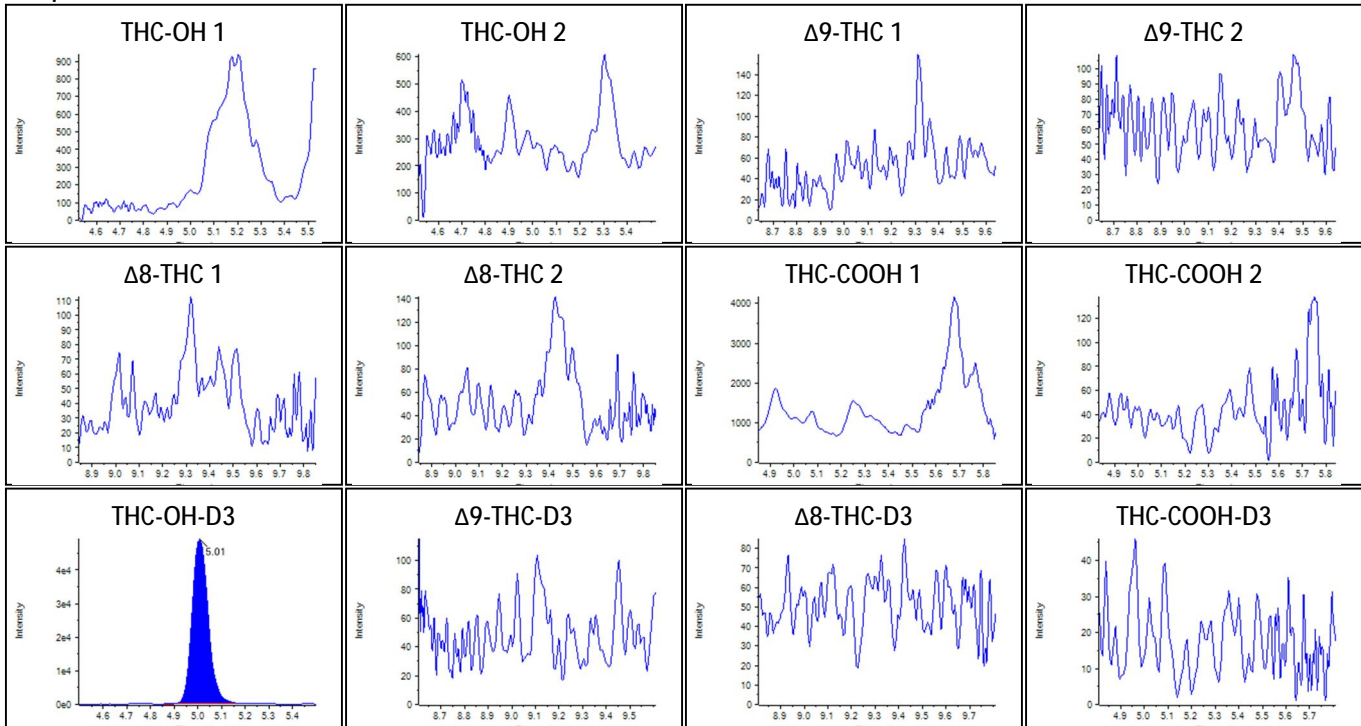
Cannabinoid Lot Log	
Date	09.19.22
Analyst	SB
Checked tubes	N/A
Sample preparation	
Sample Pipette	007
Blank Blood	FWI
Standards	
Controls	
Standards/Controls Pipette	063
Internal Standard	
Internal Standard Pipette	
0.1 % formic acid in H ₂ O	091622 DMC
Extraction	
SLE Cartridge	820-2-06
MTBE	L322A-3
B: 0.1% formic acid in ACN	082922 SB
A: 0.1 % formic acid in H ₂ O	091422 DMC
Instrumentation	
A: 0.1 % formic acid in H ₂ O	090122 HK
B: 0.1% formic acid in ACN	091222 SB
Column Serial Number	USCGC17817
Instrument	21-1
Sequence Check:	
Notes: Interference	

Cannabinoid Lot Log	
Date	9-20-22
Analyst	SR
Checked tubes	
Sample preparation	
Sample Pipette	007
Blank Blood	FL3
Standards	9-14-22 JLG
Controls	9-14-22 JLG
Standards/Controls Pipette	064
Internal Standard	9-14-22 SB
Internal Standard Pipette	103
0.1 % formic acid in H ₂ O	9-16-22 DMC
Extraction	
SLE Cartridge	22061206CA
MTBE	L322A-3
B: 0.1% formic acid in ACN	8-29-22 SB
A: 0.1 % formic acid in H ₂ O	9-14-22 DMC
Instrumentation	
A: 0.1 % formic acid in H ₂ O	9-1-22 HK
B: 0.1% formic acid in ACN	9-17-22 SB
Column Serial Number	USCGC17438
Instrument	21-1
Sequence Check:	
Notes: 10x Std 6 Δ ⁸ THC: FE 02172272-2 Δ ⁹ THC: FE 09162102-2 THC-OH: FE 09182008-2 THC-COOH: FN 09252110-2 M ₂ OH: 22D2062006-3 Flask: 3701	

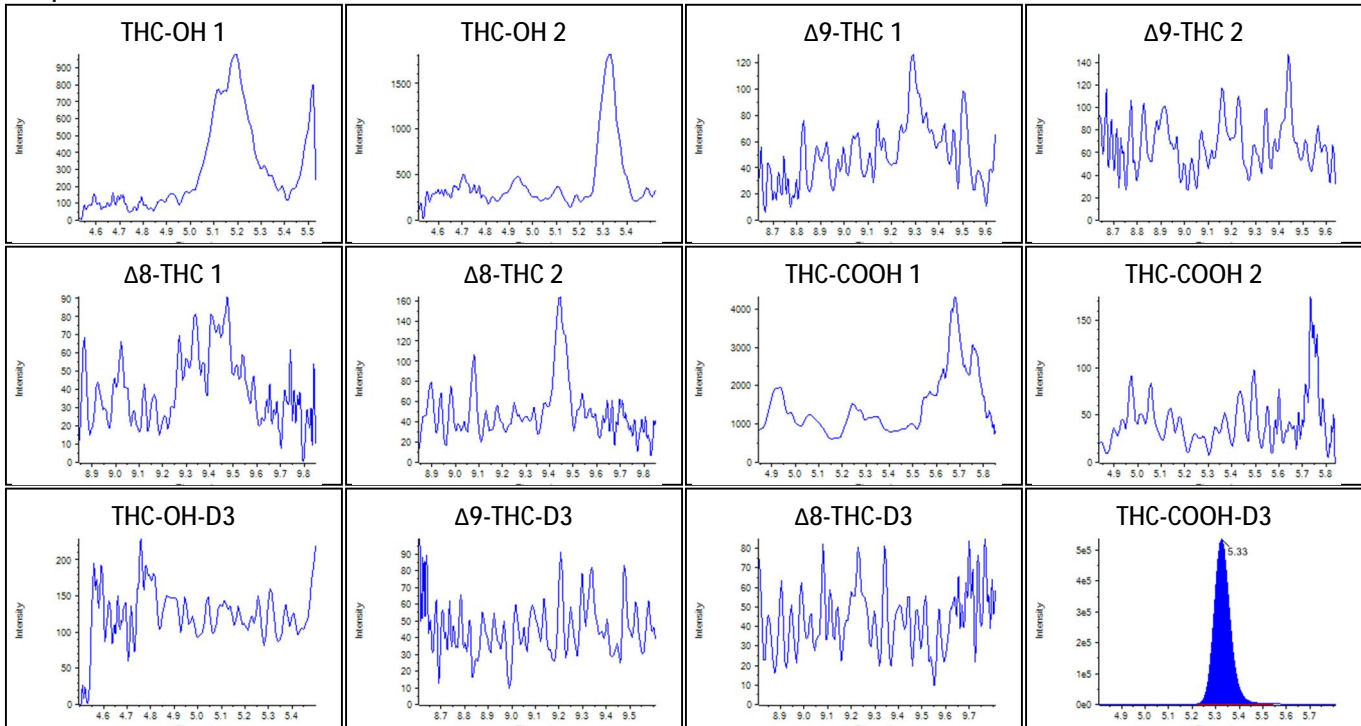
Sample Name: Δ^9 -THC-D3



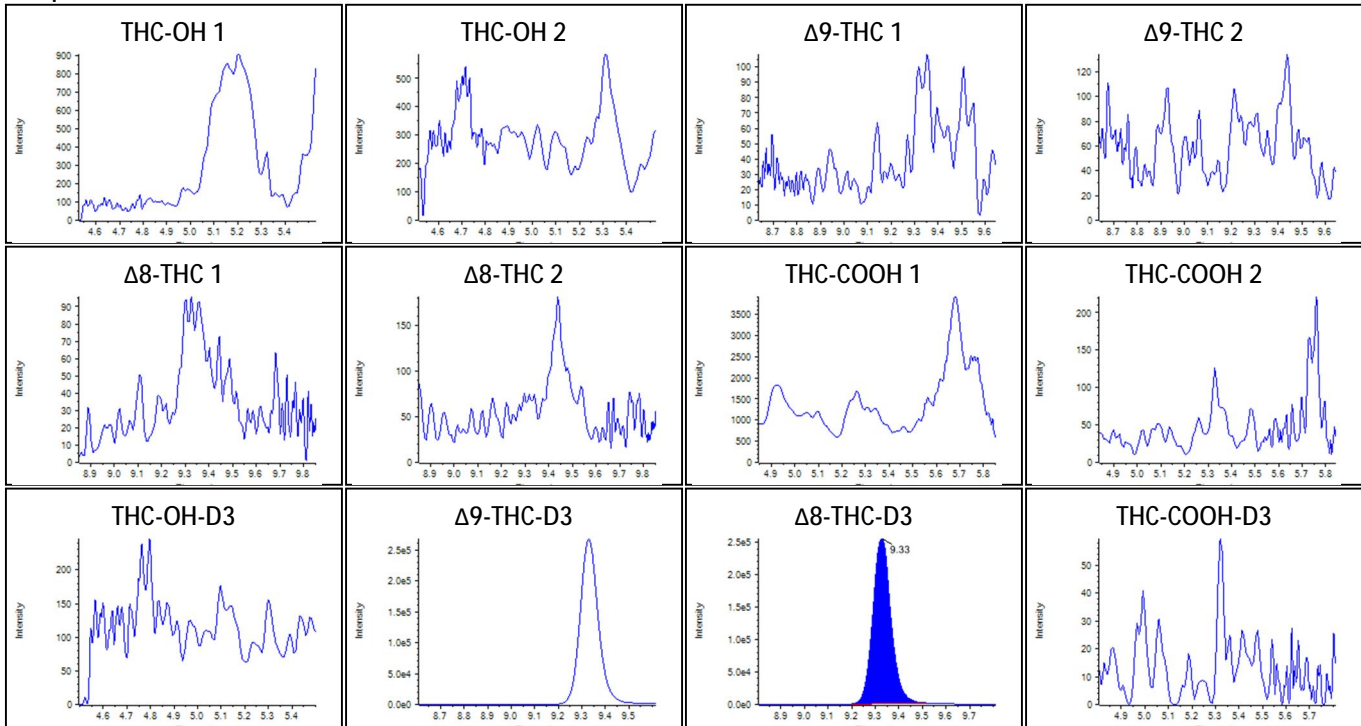
Sample Name: THC-OH-D3



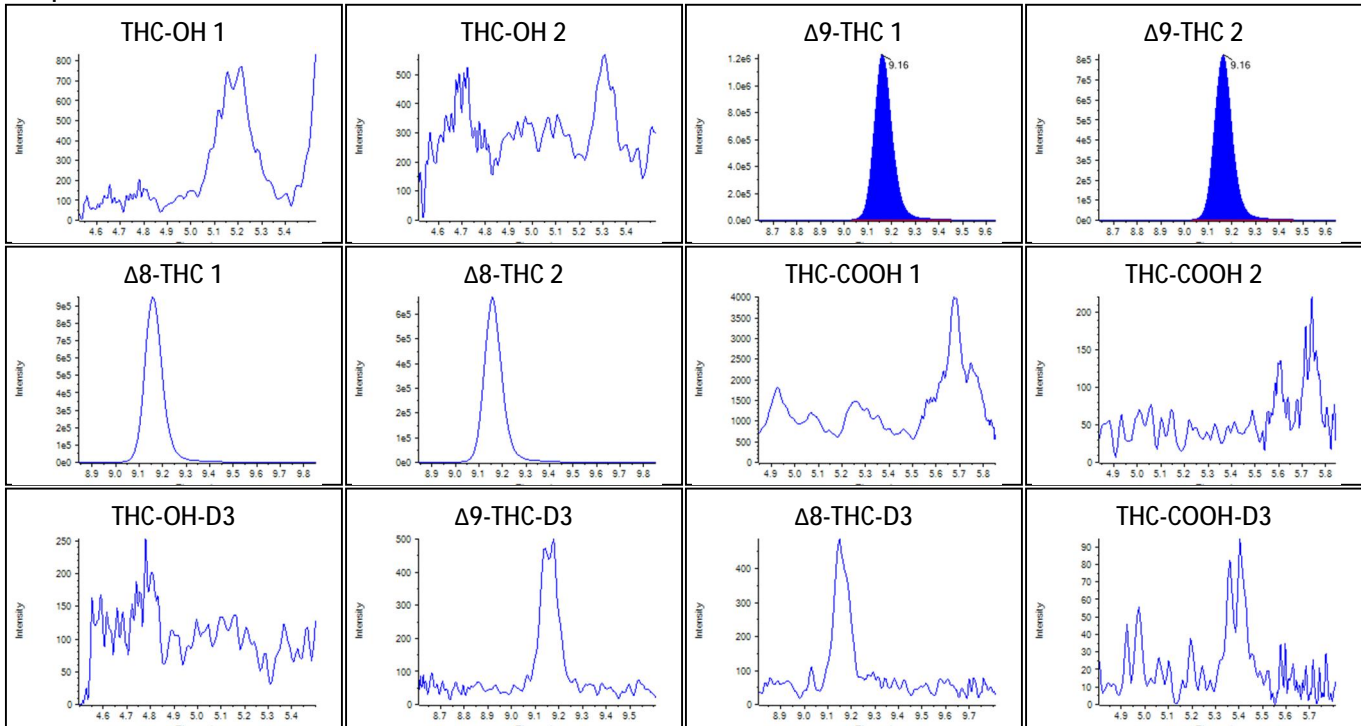
Sample Name: THC-COOH-D3



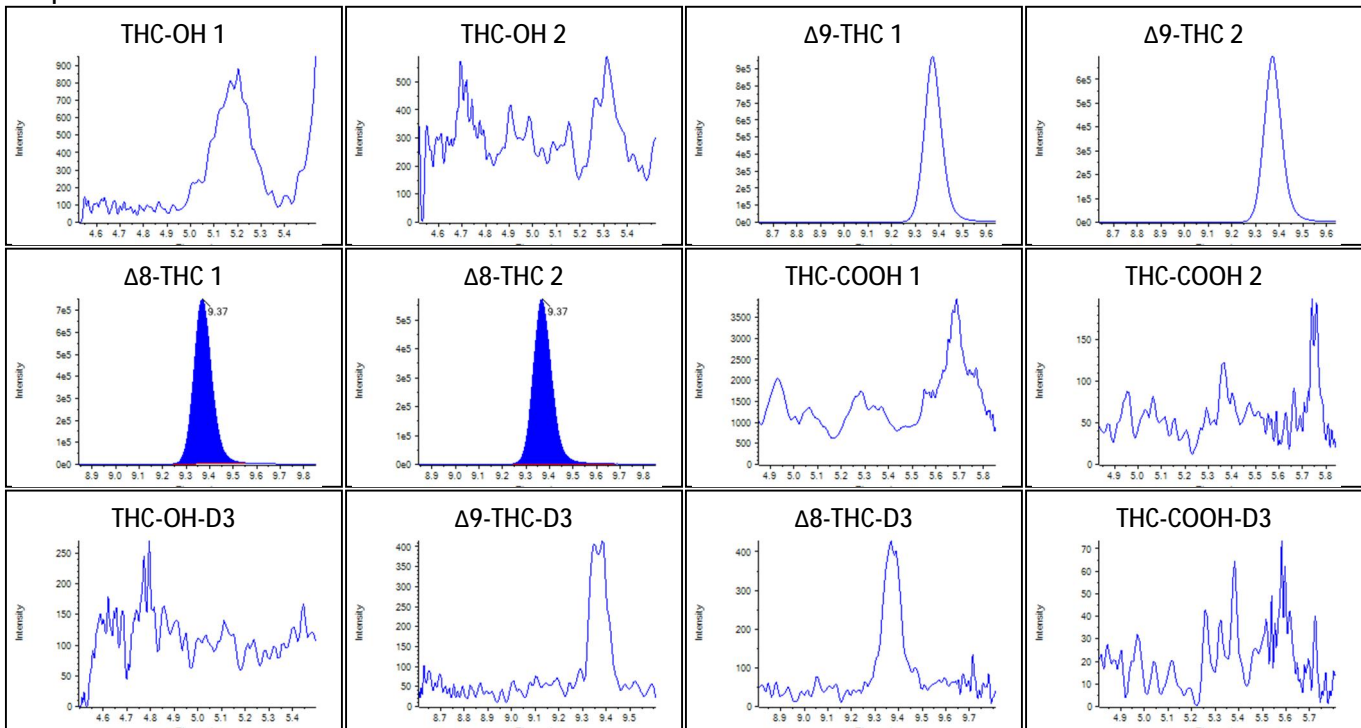
Sample Name: $\Delta 8$ -THC-D3



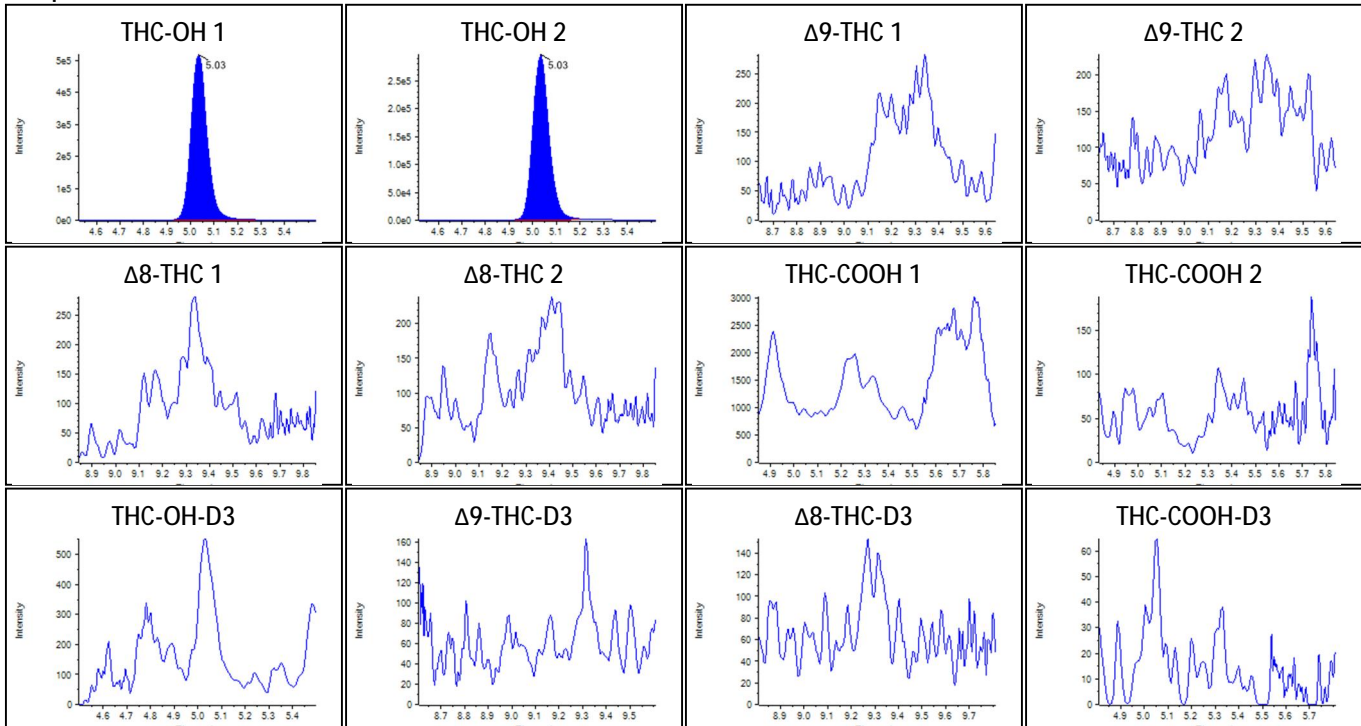
Sample Name: Δ^9 -THC



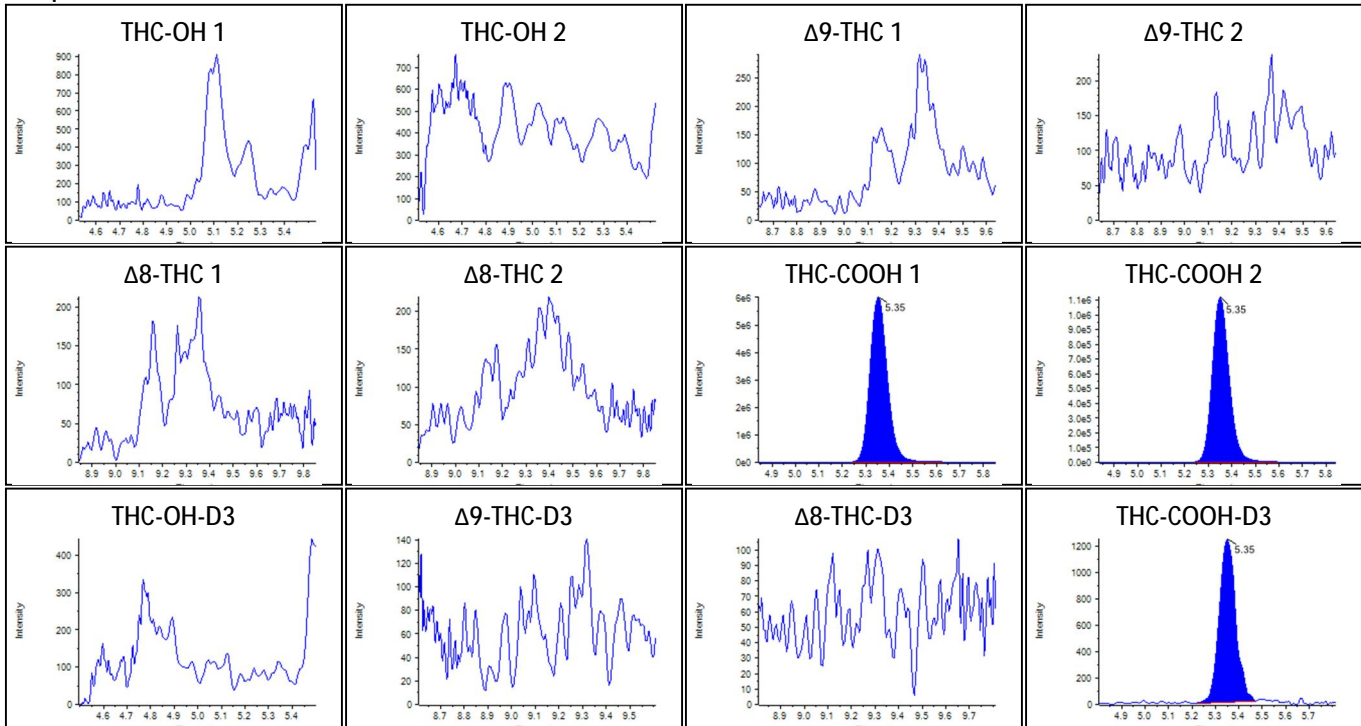
Sample Name: Δ 8-THC



Sample Name: THC-OH



Sample Name: THC-COOH



**D3-THC-COOH INTERFERENCE
FROM DELTA-9-THC-COOH**



Sample Summary

Sample Name	Standard 1
Acquisition Date/Time	2022-09-23T03:13:52
Acquisition Method	THC.dam
Batch Name	New Batch.dab
Results Table	20220922 D3-THC-COOH interference
Sample Type	Unknown
File Name	20220922 THC-COOH interference on THC-COOH-D3.wiff
Position	49
Sample Comment	

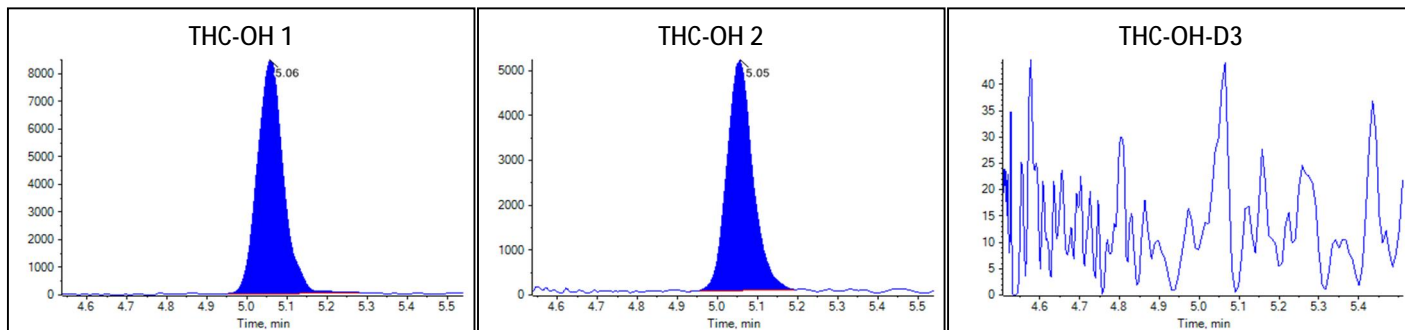
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	4173.9019	<2 points		

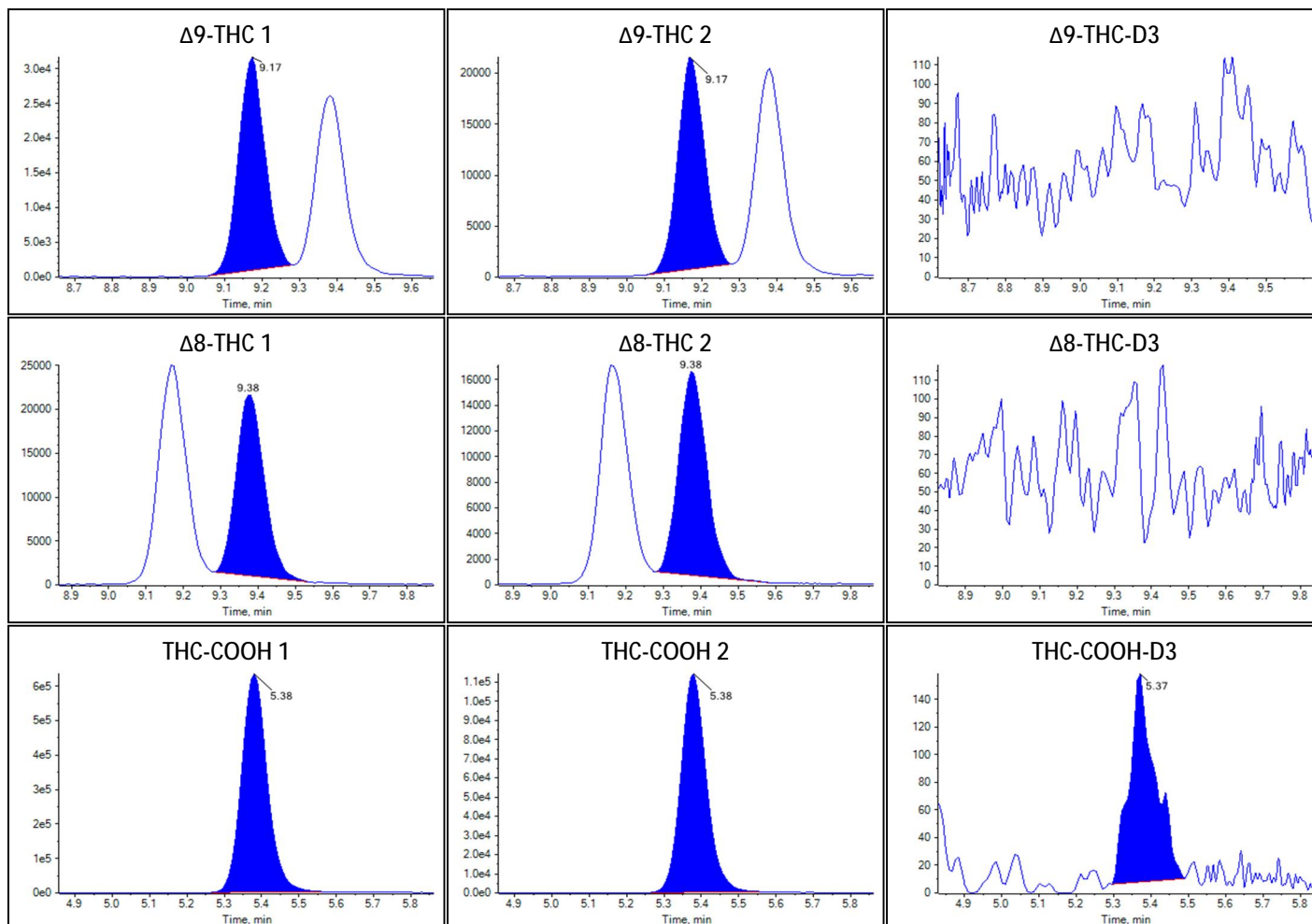
Identification Summary: Standard 1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	0.600(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	0.681(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	0.764(Not calculated)
THC-COOH 1	343.0 / 299.1	1.000(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.000(Not calculated)	0.178(Not calculated)

Peak Review: Standard 1



Peak Review: Standard 1





Sample Summary

Sample Name	Standard 1
Acquisition Date/Time	2022-09-23T03:27:58
Acquisition Method	THC.dam
Batch Name	New Batch.dab
Results Table	20220922 D3-THC-COOH interference
Sample Type	Unknown
File Name	20220922 THC-COOH interference on THC-COOH-D3.wiff
Position	50
Sample Comment	

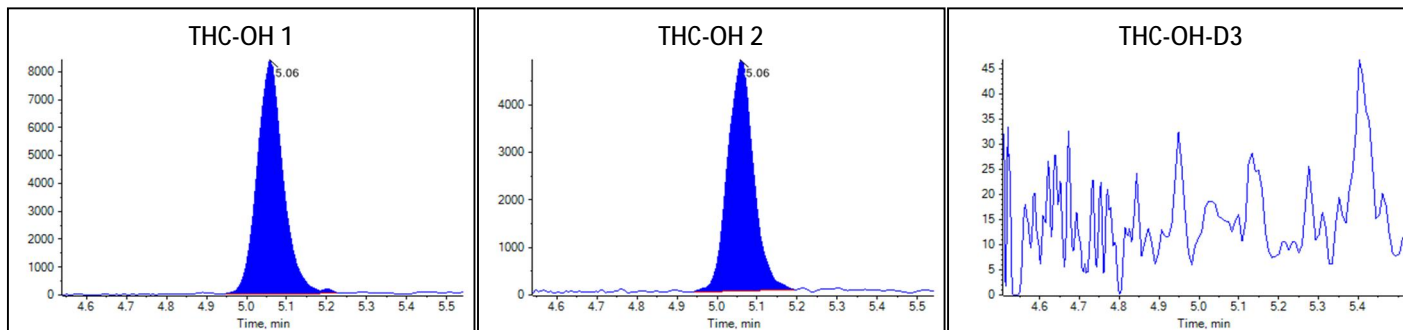
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	5533.2222	<2 points		

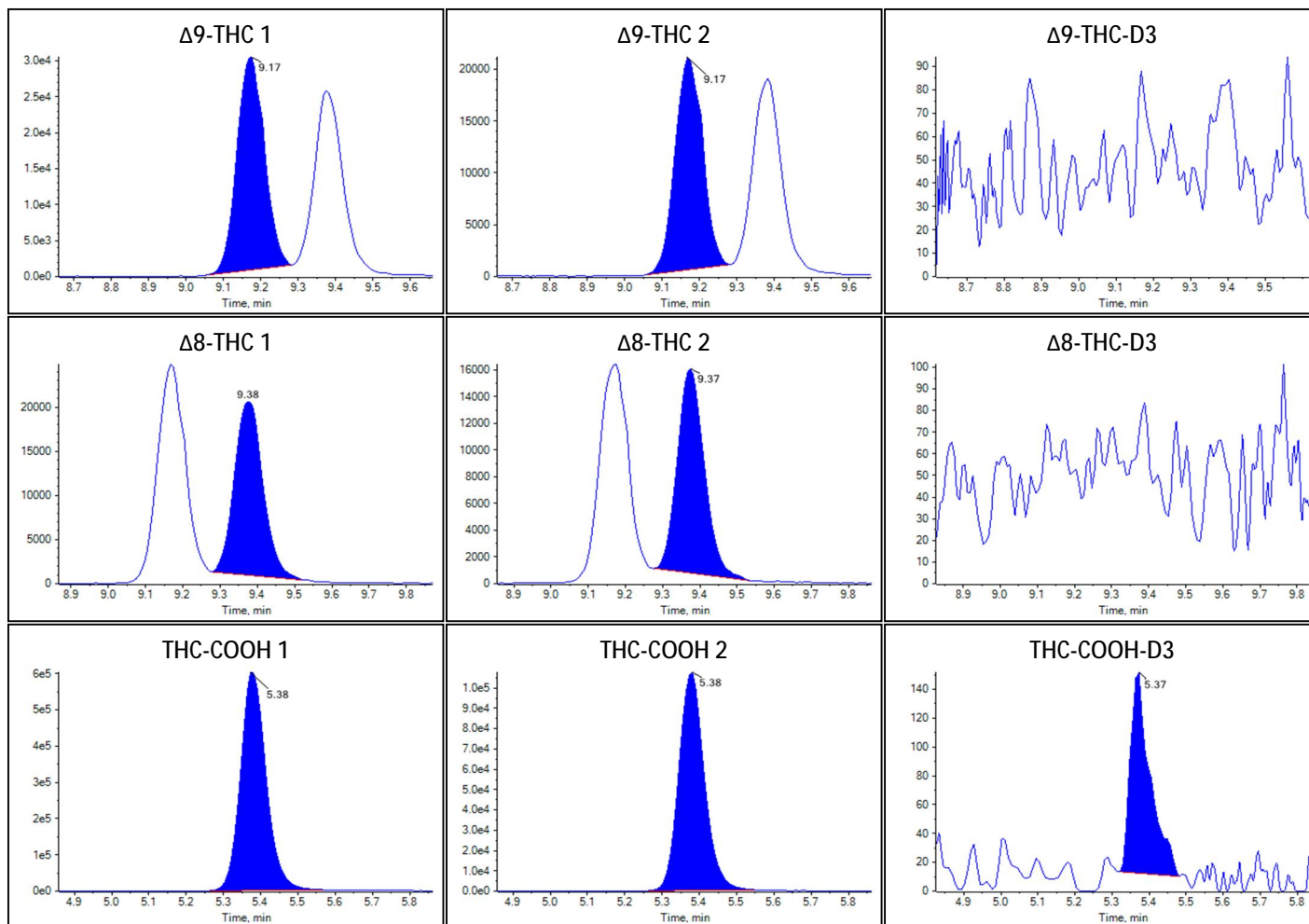
Identification Summary: Standard 1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	0.581(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	0.694(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	0.736(Not calculated)
THC-COOH 1	343.0 / 299.1	1.000(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.000(Not calculated)	0.177(Not calculated)

Peak Review: Standard 1



Peak Review: Standard 1





Sample Summary

Sample Name	Standard 1
Acquisition Date/Time	2022-09-23T03:42:04
Acquisition Method	THC.dam
Batch Name	New Batch.dab
Results Table	20220922 D3-THC-COOH interference
Sample Type	Unknown
File Name	20220922 THC-COOH interference on THC-COOH-D3.wiff
Position	51
Sample Comment	

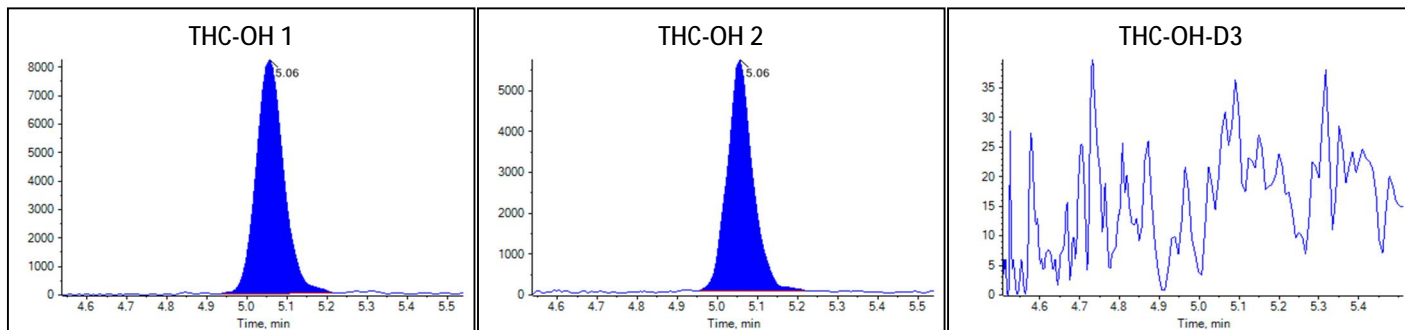
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	4735.2218	<2 points		

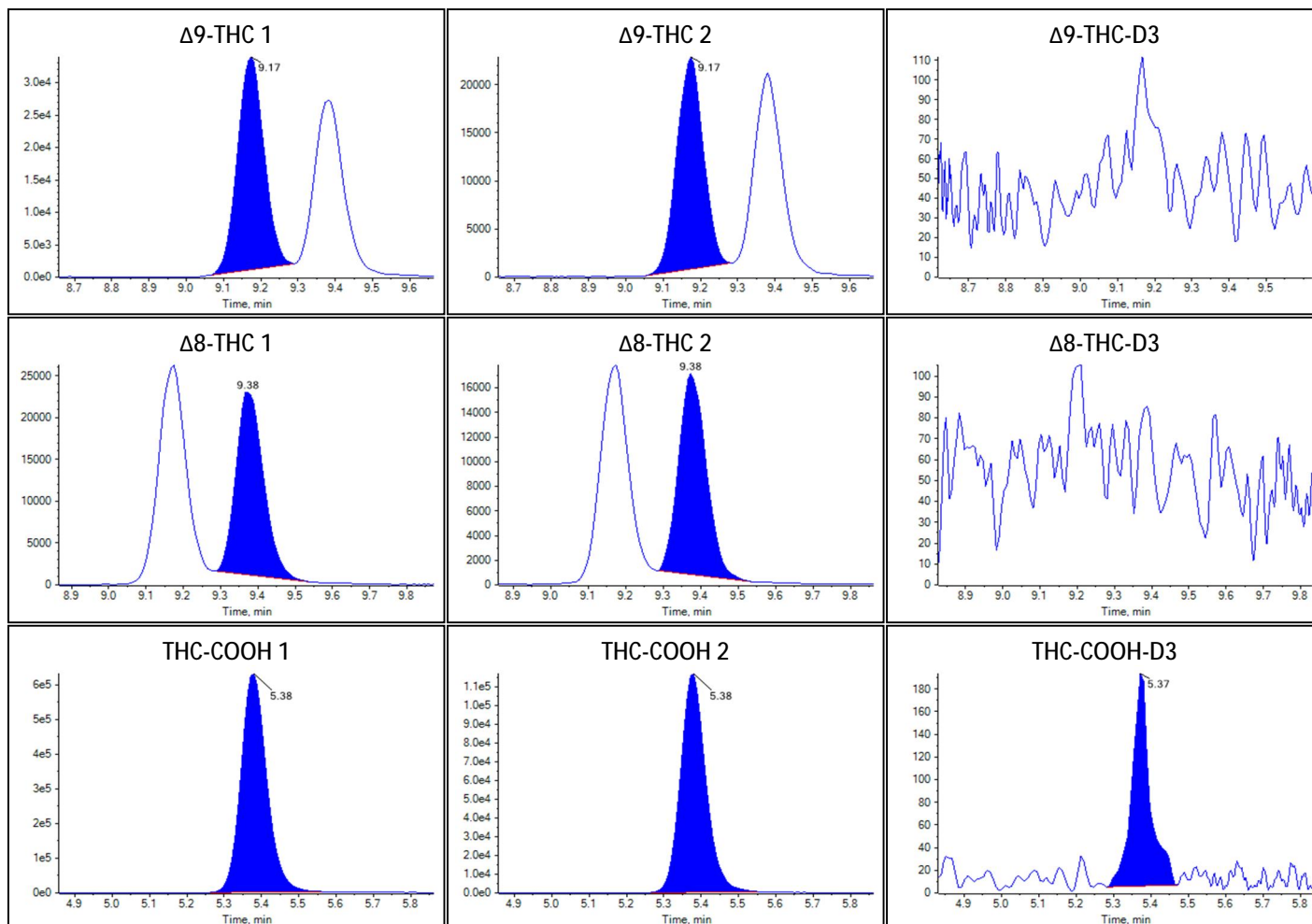
Identification Summary: Standard 1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	0.633(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	0.669(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	0.741(Not calculated)
THC-COOH 1	343.0 / 299.1	1.000(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.000(Not calculated)	0.181(Not calculated)

Peak Review: Standard 1



Peak Review: Standard 1





Sample Summary

Sample Name	Standard 1
Acquisition Date/Time	2022-09-23T03:56:09
Acquisition Method	THC.dam
Batch Name	New Batch.dab
Results Table	20220922 D3-THC-COOH interference
Sample Type	Unknown
File Name	20220922 THC-COOH interference on THC-COOH-D3.wiff
Position	52
Sample Comment	

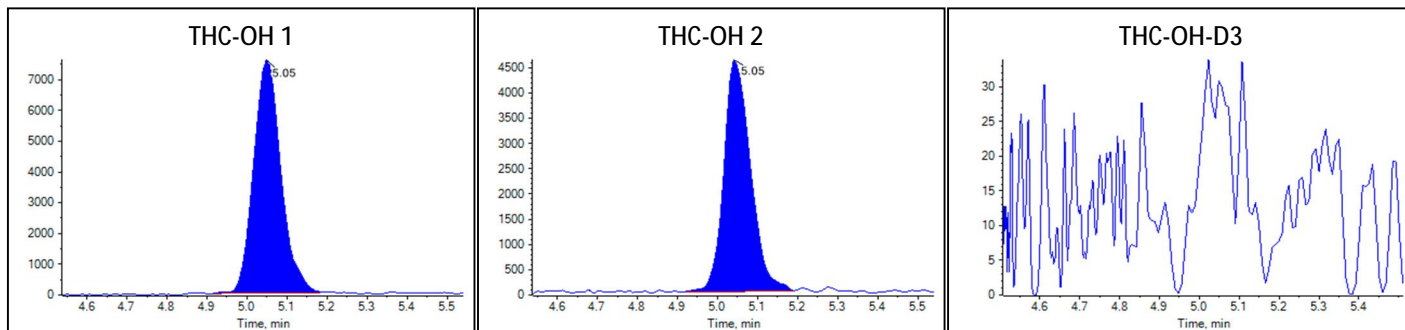
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	6022.0685	<2 points		

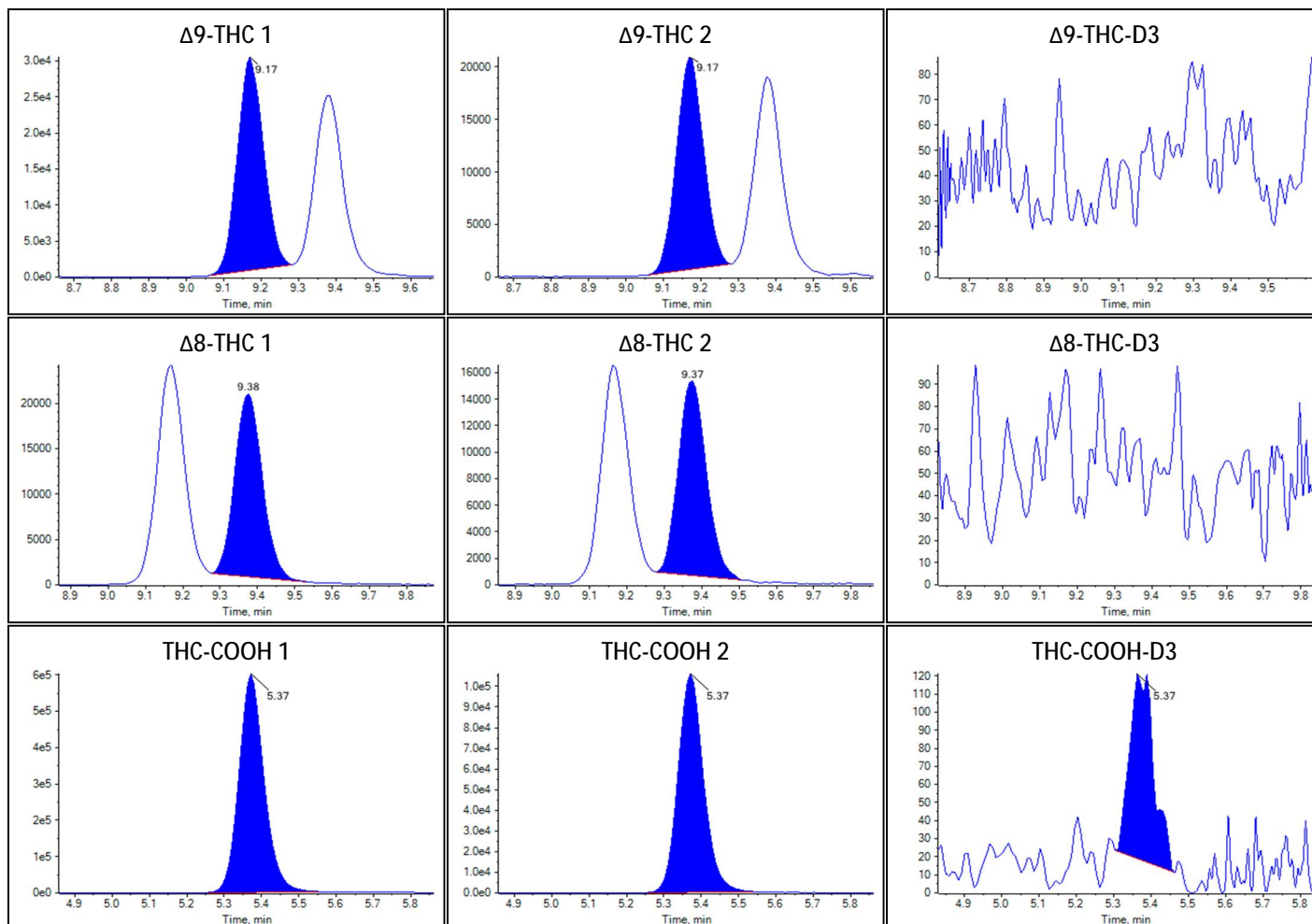
Identification Summary: Standard 1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	0.593(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	0.705(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	0.743(Not calculated)
THC-COOH 1	343.0 / 299.1	1.000(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.000(Not calculated)	0.177(Not calculated)

Peak Review: Standard 1



Peak Review: Standard 1





Sample Summary

Sample Name	Standard 1
Acquisition Date/Time	2022-09-23T04:10:15
Acquisition Method	THC.dam
Batch Name	New Batch.dab
Results Table	20220922 D3-THC-COOH interference
Sample Type	Unknown
File Name	20220922 THC-COOH interference on THC-COOH-D3.wiff
Position	53
Sample Comment	

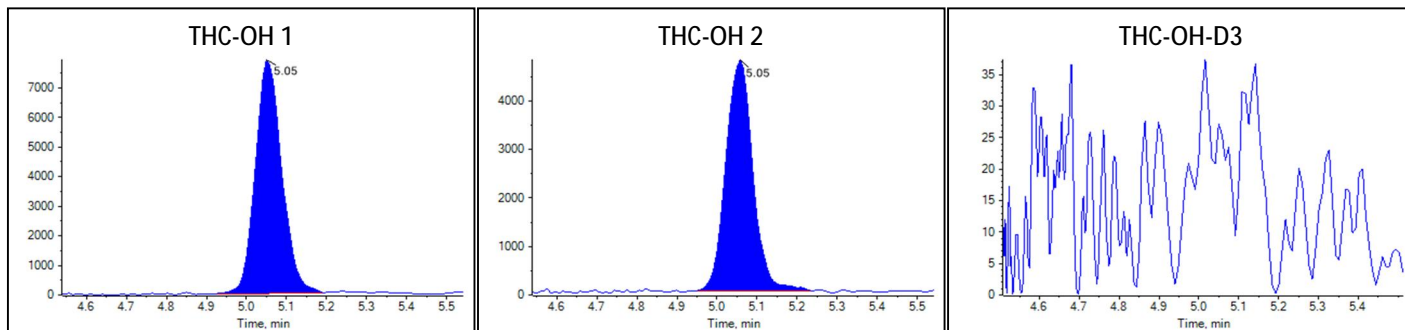
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	5248.3902	<2 points		

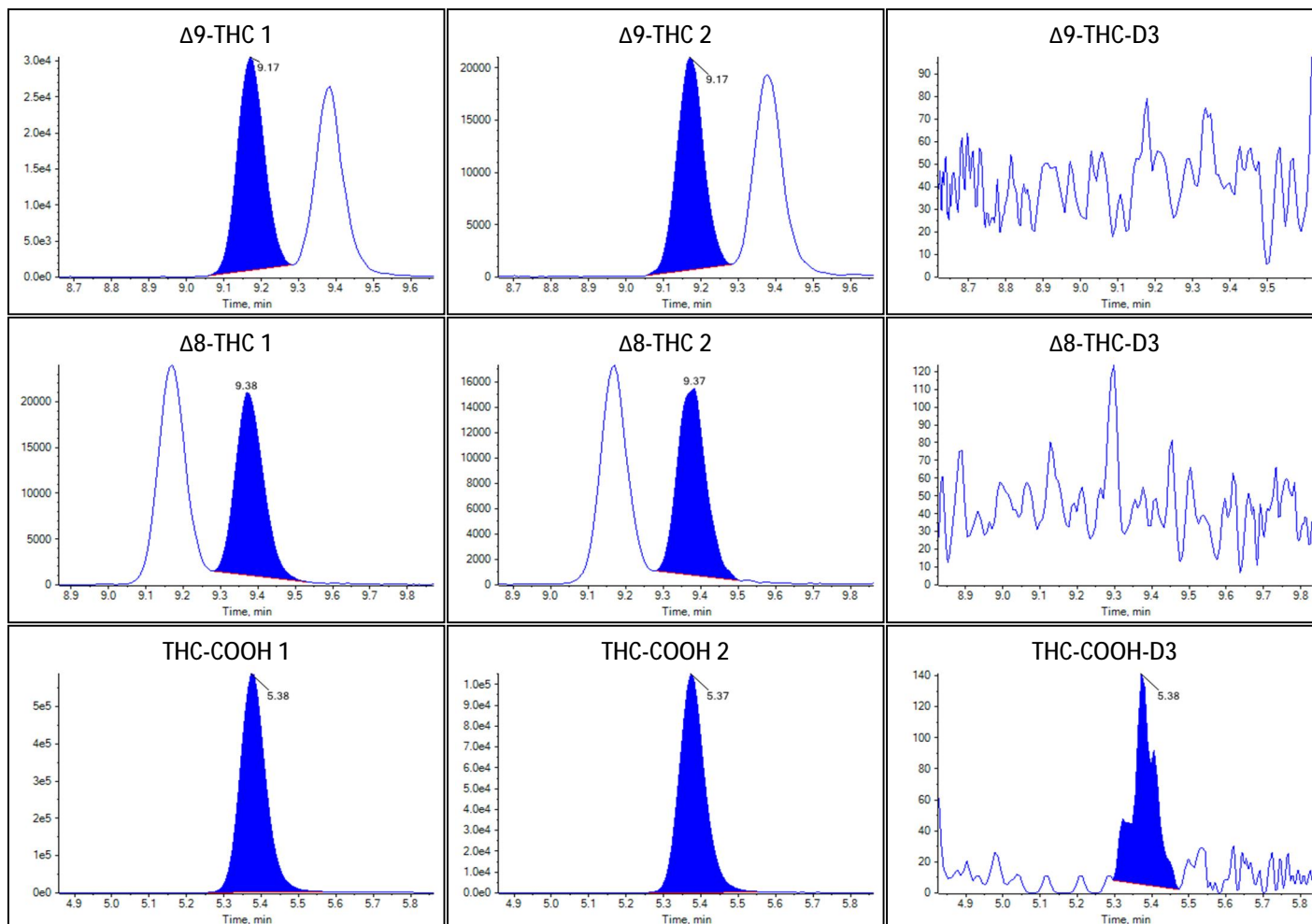
Identification Summary: Standard 1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	0.615(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	0.687(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	0.758(Not calculated)
THC-COOH 1	343.0 / 299.1	1.000(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.000(Not calculated)	0.178(Not calculated)

Peak Review: Standard 1



Peak Review: Standard 1





Sample Summary

Sample Name	Standard 2
Acquisition Date/Time	2022-09-23T04:24:20
Acquisition Method	THC.dam
Batch Name	New Batch.dab
Results Table	20220922 D3-THC-COOH interference
Sample Type	Unknown
File Name	20220922 THC-COOH interference on THC-COOH-D3.wiff
Position	54
Sample Comment	

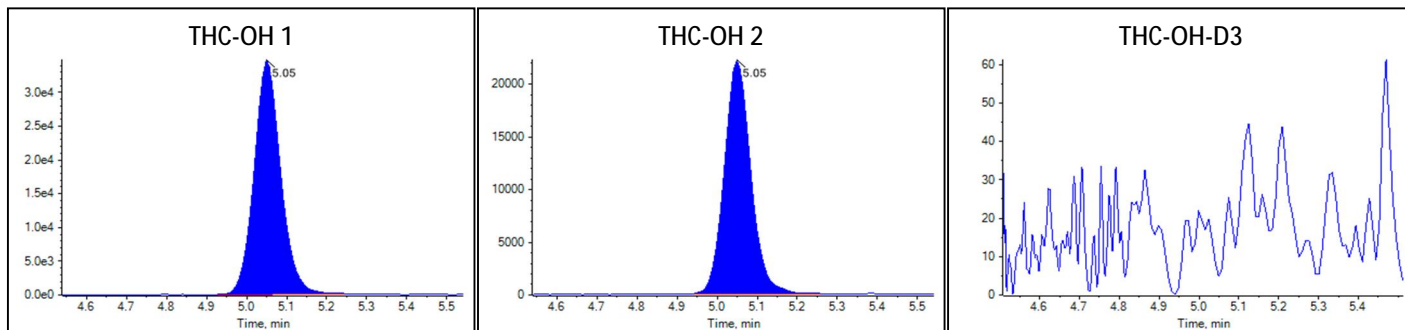
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	6134.4312	<2 points		

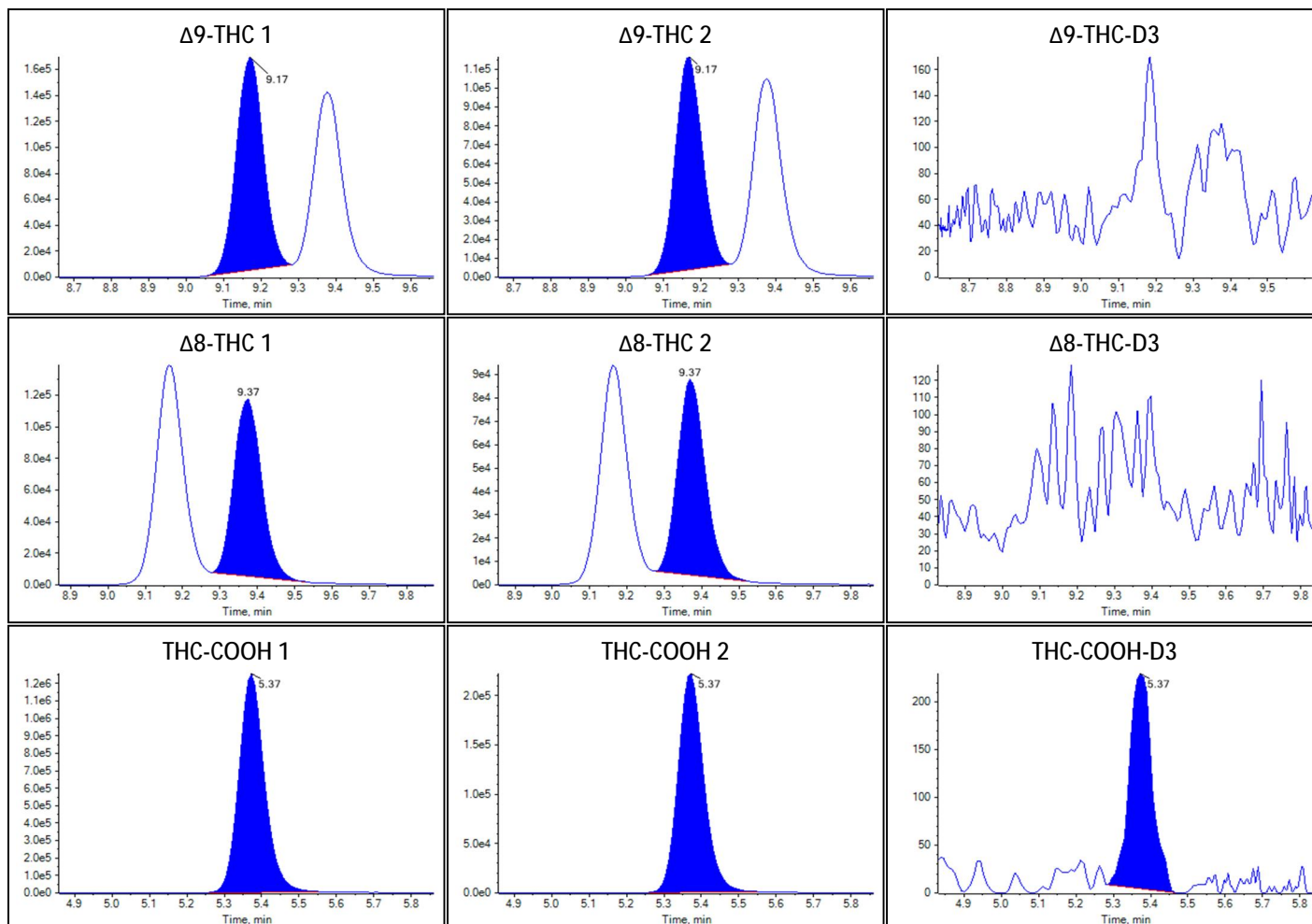
Identification Summary: Standard 2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	0.635(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	0.679(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	0.741(Not calculated)
THC-COOH 1	343.0 / 299.1	1.000(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.000(Not calculated)	0.178(Not calculated)

Peak Review: Standard 2



Peak Review: Standard 2





Sample Summary

Sample Name	Standard 2
Acquisition Date/Time	2022-09-23T04:38:25
Acquisition Method	THC.dam
Batch Name	New Batch.dab
Results Table	20220922 D3-THC-COOH interference
Sample Type	Unknown
File Name	20220922 THC-COOH interference on THC-COOH-D3.wiff
Position	55
Sample Comment	

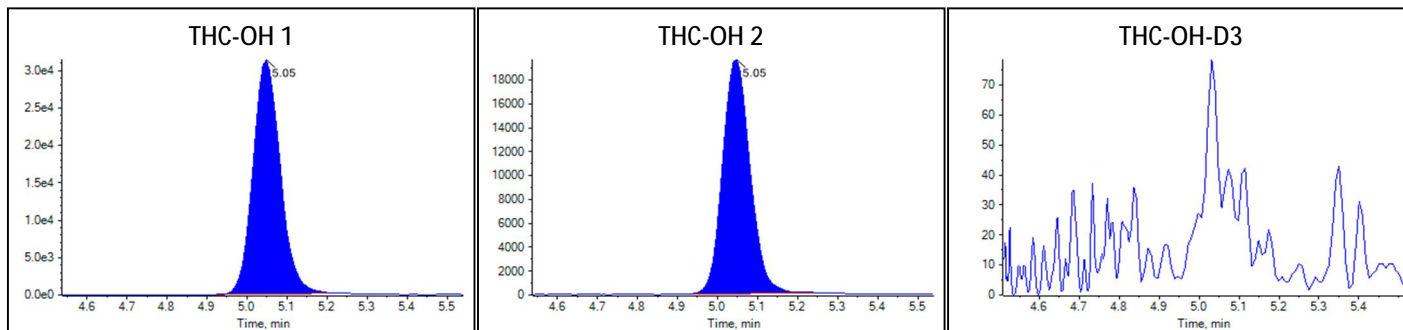
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	4853.3820	<2 points		

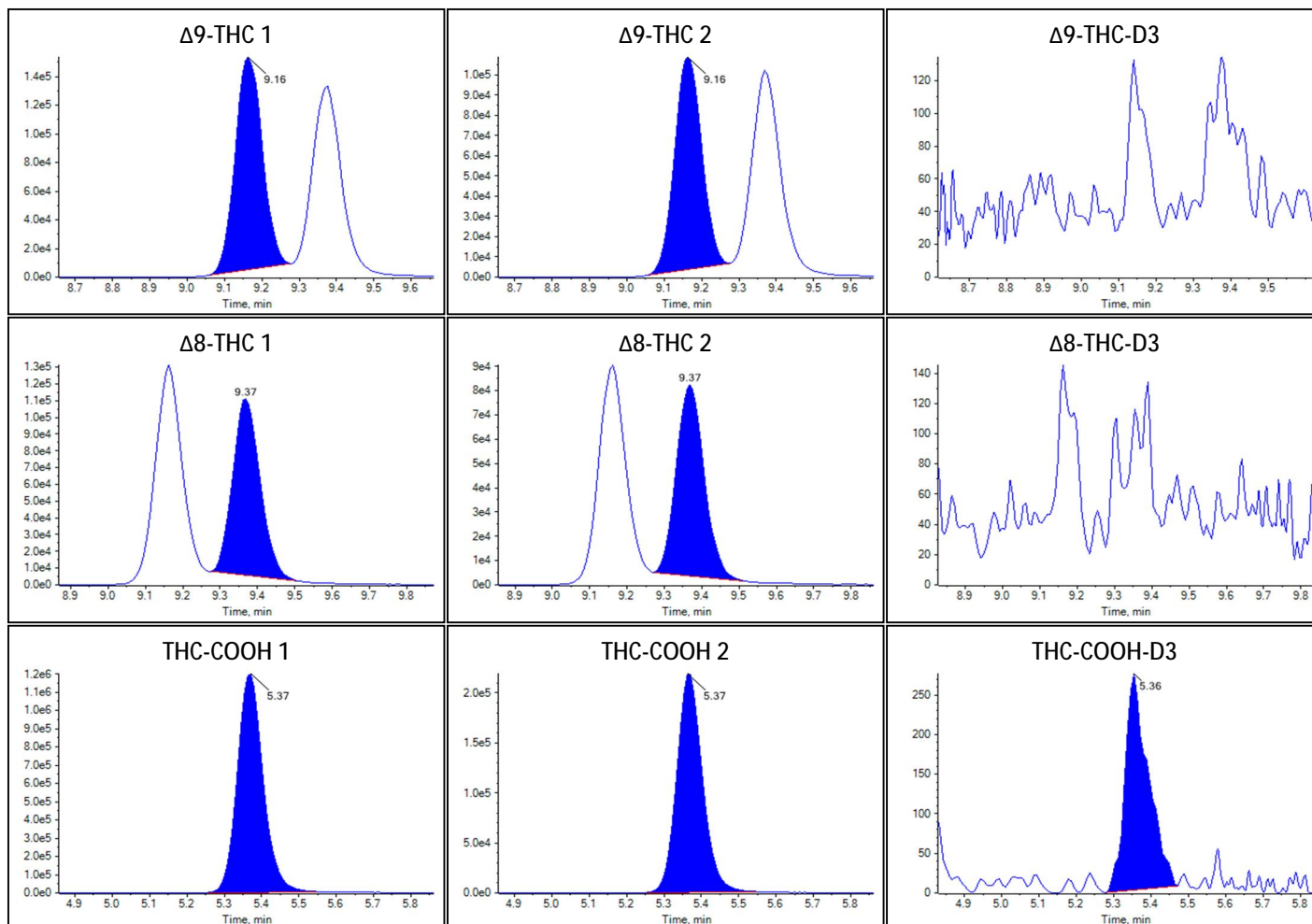
Identification Summary: Standard 2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	0.633(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	0.706(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	0.758(Not calculated)
THC-COOH 1	343.0 / 299.1	1.000(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.000(Not calculated)	0.181(Not calculated)

Peak Review: Standard 2



Peak Review: Standard 2





Sample Summary

Sample Name	Standard 2
Acquisition Date/Time	2022-09-23T04:52:31
Acquisition Method	THC.dam
Batch Name	New Batch.dab
Results Table	20220922 D3-THC-COOH interference
Sample Type	Unknown
File Name	20220922 THC-COOH interference on THC-COOH-D3.wiff
Position	56
Sample Comment	

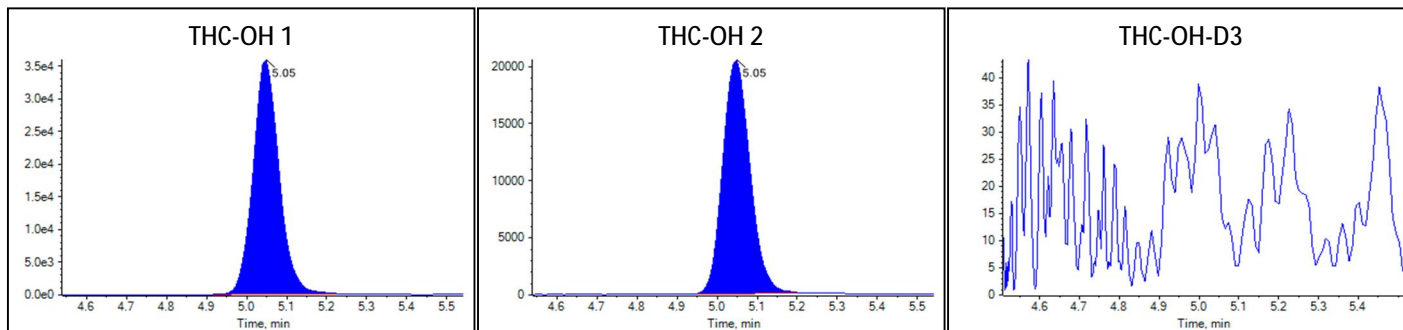
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	5623.8129	<2 points		

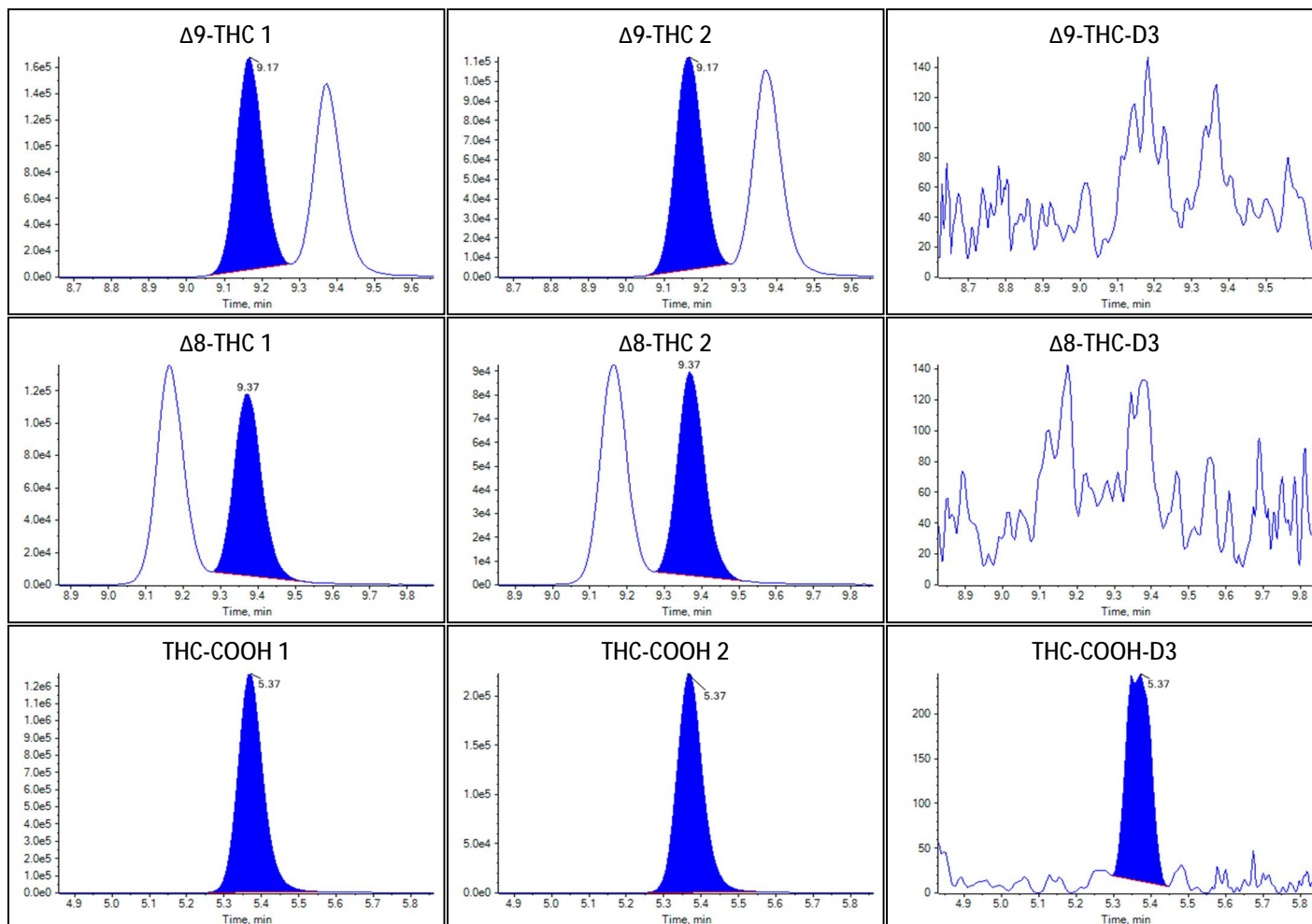
Identification Summary: Standard 2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	0.599(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	0.689(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	0.751(Not calculated)
THC-COOH 1	343.0 / 299.1	1.000(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.000(Not calculated)	0.178(Not calculated)

Peak Review: Standard 2



Peak Review: Standard 2





Sample Summary

Sample Name	Standard 2
Acquisition Date/Time	2022-09-23T05:06:36
Acquisition Method	THC.dam
Batch Name	New Batch.dab
Results Table	20220922 D3-THC-COOH interference
Sample Type	Unknown
File Name	20220922 THC-COOH interference on THC-COOH-D3.wiff
Position	57
Sample Comment	

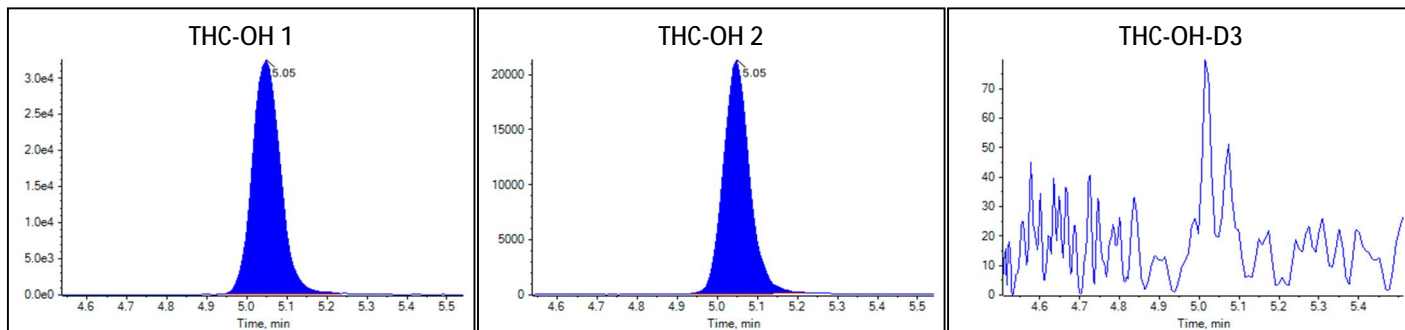
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	4926.2643	<2 points		

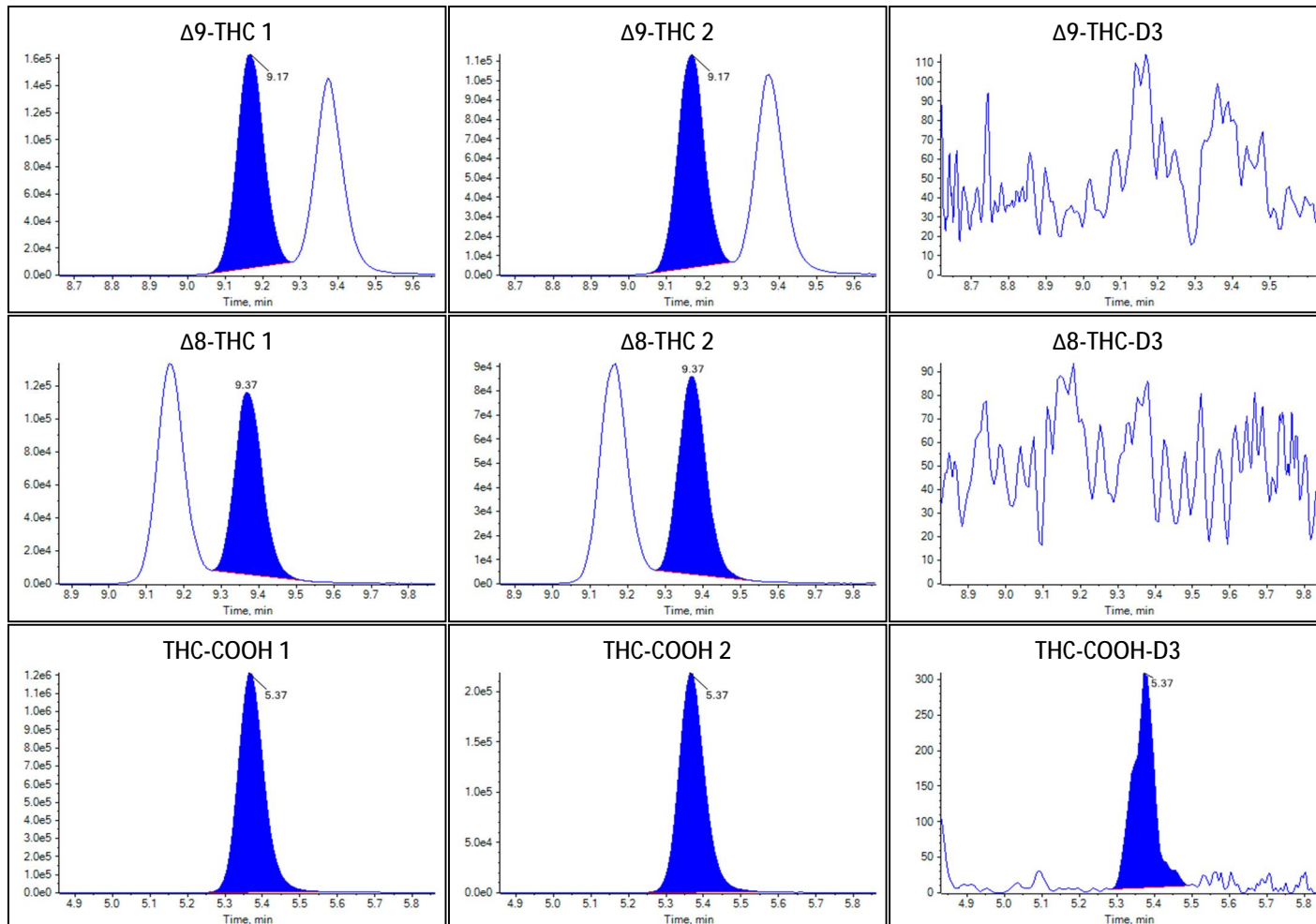
Identification Summary: Standard 2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	0.610(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	0.692(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	0.744(Not calculated)
THC-COOH 1	343.0 / 299.1	1.000(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.000(Not calculated)	0.179(Not calculated)

Peak Review: Standard 2



Peak Review: Standard 2





Sample Summary

Sample Name	Standard 2
Acquisition Date/Time	2022-09-23T05:20:42
Acquisition Method	THC.dam
Batch Name	New Batch.dab
Results Table	20220922 D3-THC-COOH interference
Sample Type	Unknown
File Name	20220922 THC-COOH interference on THC-COOH-D3.wiff
Position	58
Sample Comment	

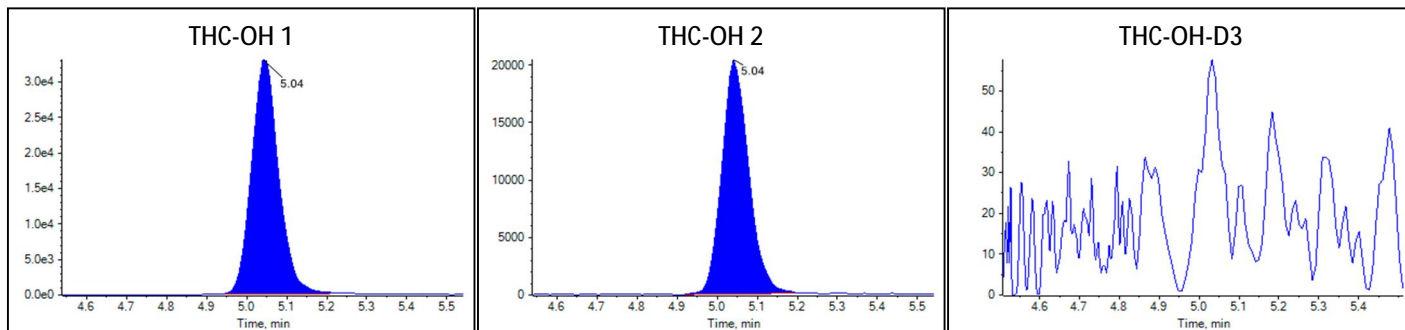
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	5229.6229	<2 points		

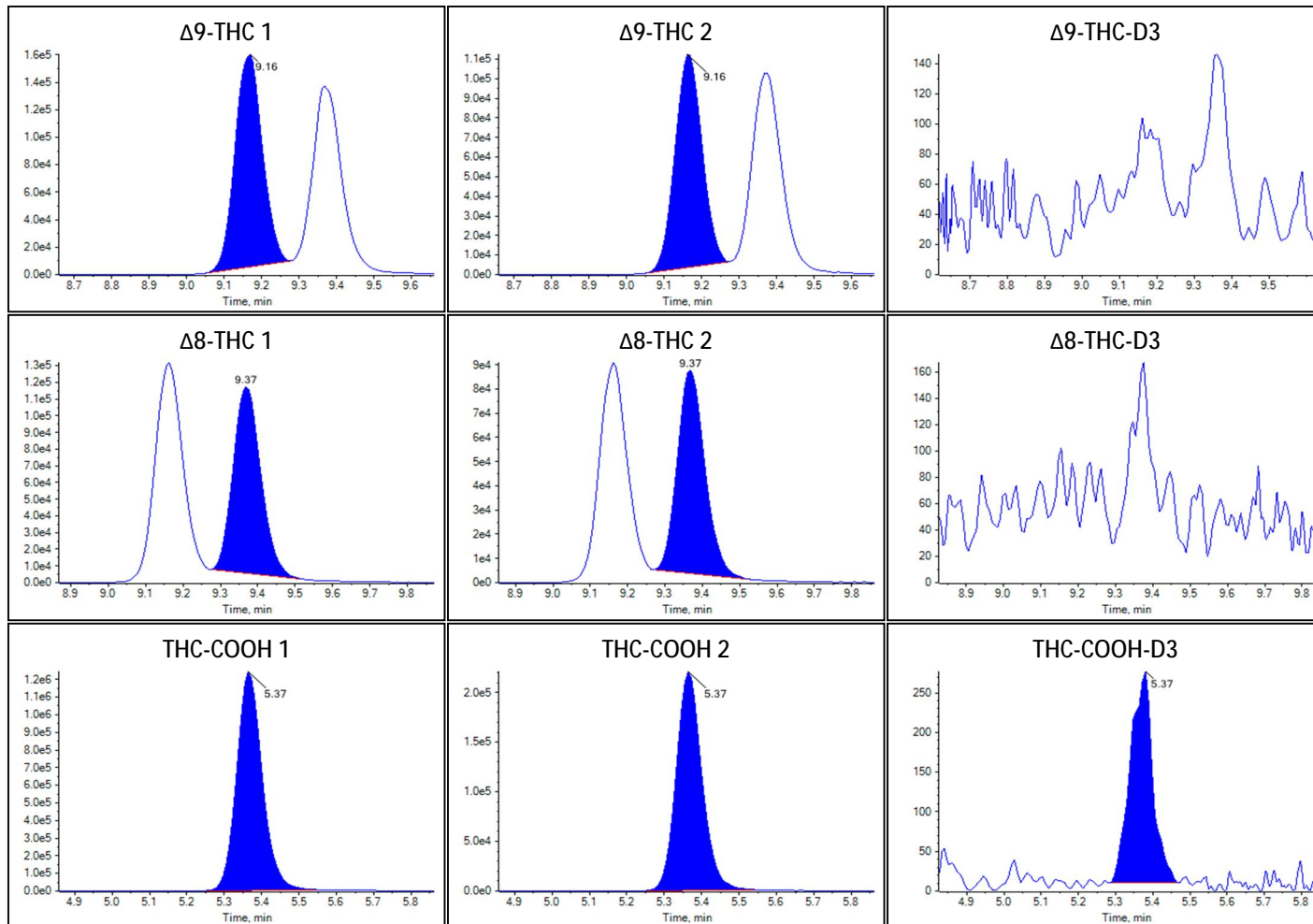
Identification Summary: Standard 2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	0.611(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	0.694(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	0.746(Not calculated)
THC-COOH 1	343.0 / 299.1	1.000(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.000(Not calculated)	0.178(Not calculated)

Peak Review: Standard 2



Peak Review: Standard 2





Sample Summary

Sample Name	Standard 3
Acquisition Date/Time	2022-09-23T05:34:50
Acquisition Method	THC.dam
Batch Name	New Batch.dab
Results Table	20220922 D3-THC-COOH interference
Sample Type	Unknown
File Name	20220922 THC-COOH interference on THC-COOH-D3.wiff
Position	59
Sample Comment	

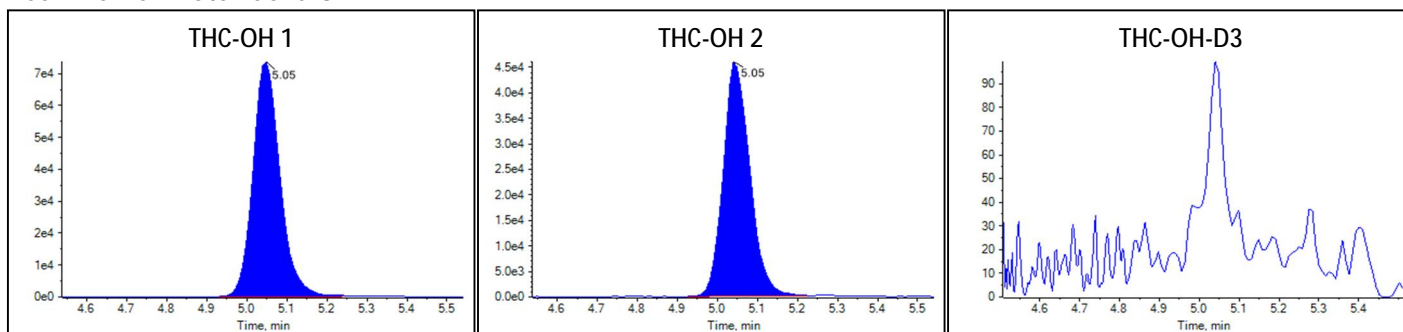
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	5614.1791	<2 points		

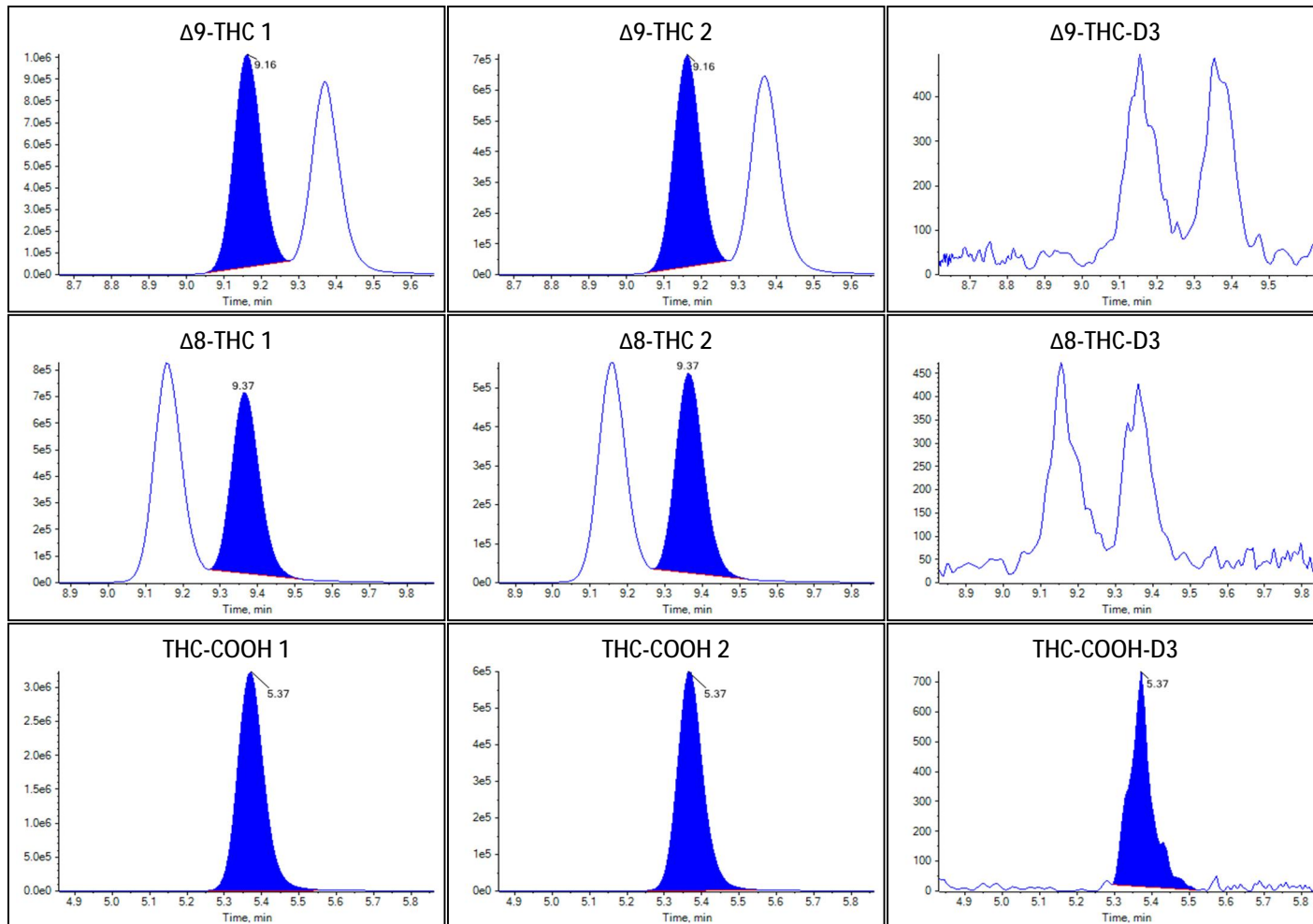
Identification Summary: Standard 3

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	0.611(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	0.688(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	0.758(Not calculated)
THC-COOH 1	343.0 / 299.1	1.000(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.000(Not calculated)	0.181(Not calculated)

Peak Review: Standard 3



Peak Review: Standard 3





Sample Summary

Sample Name	Standard 3
Acquisition Date/Time	2022-09-23T05:48:58
Acquisition Method	THC.dam
Batch Name	New Batch.dab
Results Table	20220922 D3-THC-COOH interference
Sample Type	Unknown
File Name	20220922 THC-COOH interference on THC-COOH-D3.wiff
Position	60
Sample Comment	

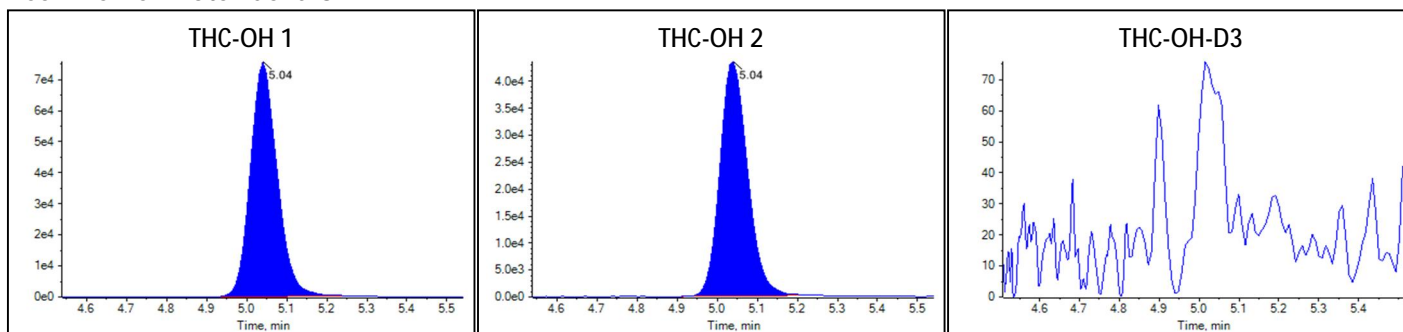
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	4811.5453	<2 points		

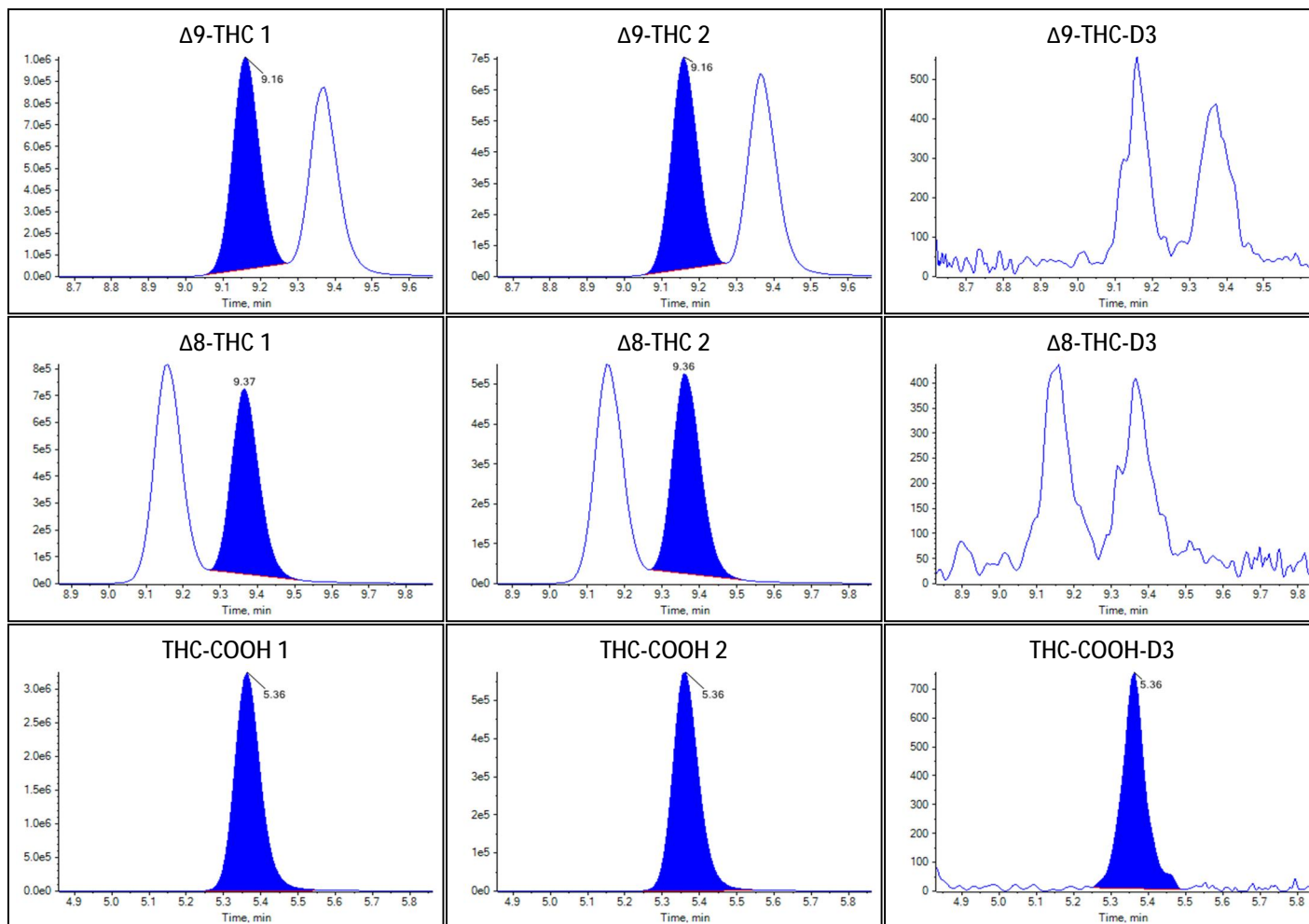
Identification Summary: Standard 3

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	0.597(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	0.688(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	0.743(Not calculated)
THC-COOH 1	343.0 / 299.1	1.000(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.000(Not calculated)	0.177(Not calculated)

Peak Review: Standard 3



Peak Review: Standard 3





Sample Summary

Sample Name	Standard 3
Acquisition Date/Time	2022-09-23T06:03:04
Acquisition Method	THC.dam
Batch Name	New Batch.dab
Results Table	20220922 D3-THC-COOH interference
Sample Type	Unknown
File Name	20220922 THC-COOH interference on THC-COOH-D3.wiff
Position	61
Sample Comment	

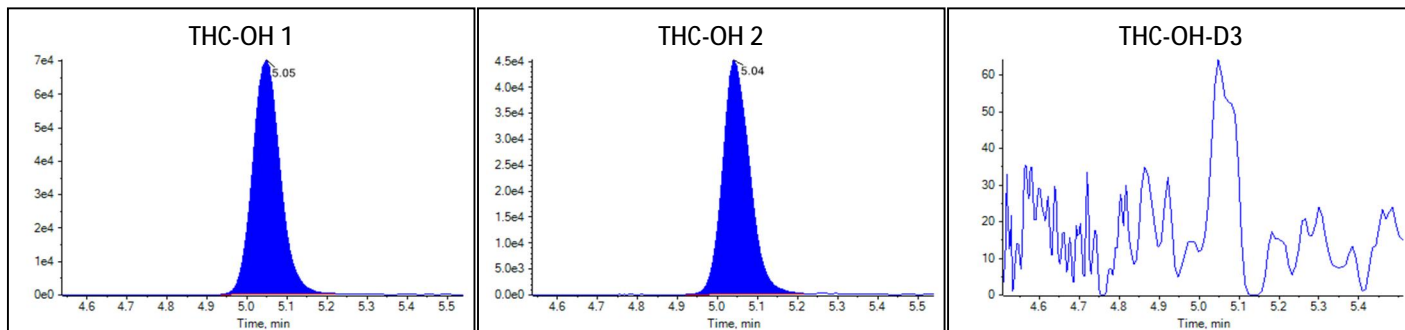
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	5839.6687	<2 points		

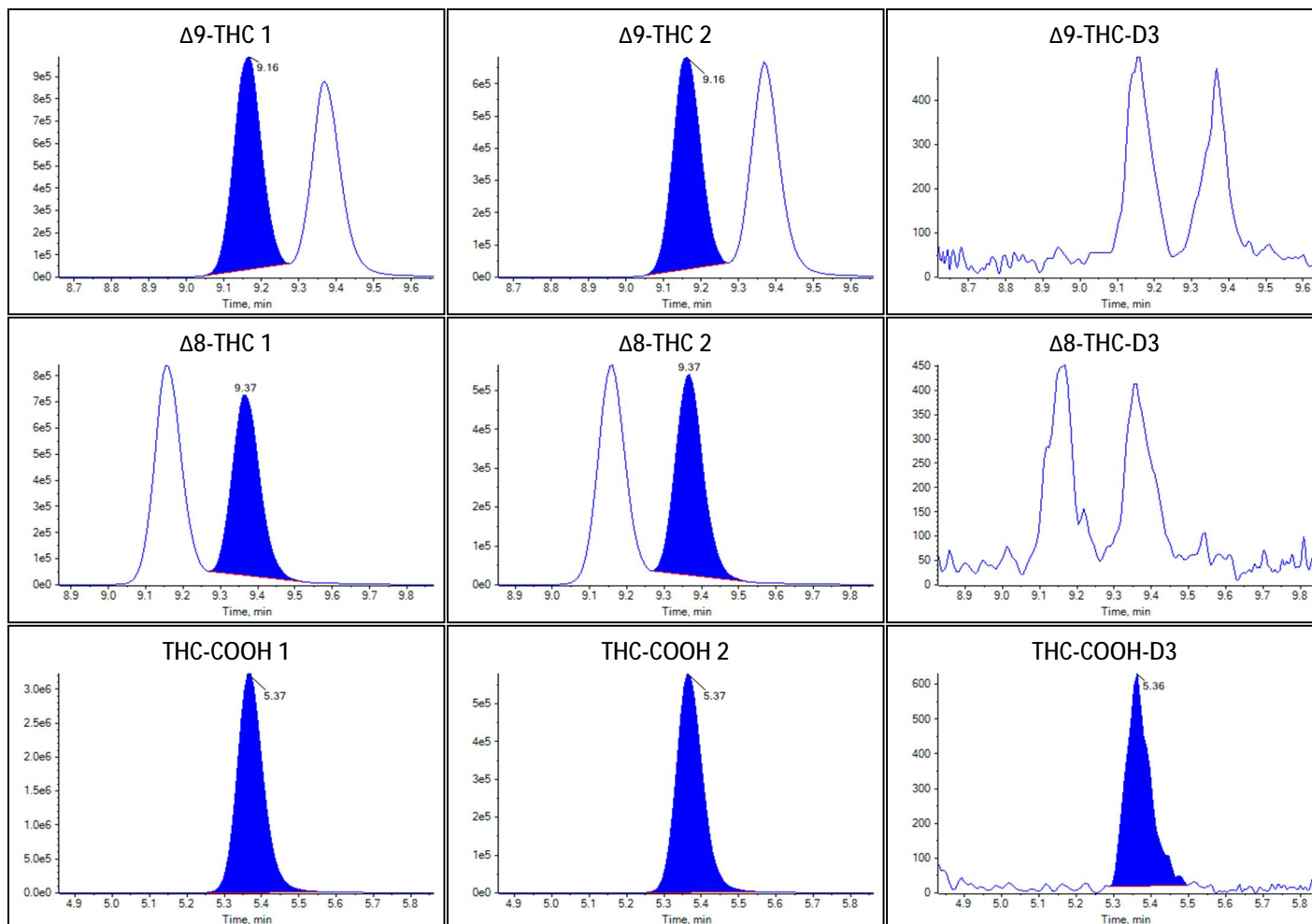
Identification Summary: Standard 3

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	0.632(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	0.690(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	0.748(Not calculated)
THC-COOH 1	343.0 / 299.1	1.000(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.000(Not calculated)	0.180(Not calculated)

Peak Review: Standard 3



Peak Review: Standard 3





Sample Summary

Sample Name	Standard 3
Acquisition Date/Time	2022-09-23T06:17:09
Acquisition Method	THC.dam
Batch Name	New Batch.dab
Results Table	20220922 D3-THC-COOH interference
Sample Type	Unknown
File Name	20220922 THC-COOH interference on THC-COOH-D3.wiff
Position	62
Sample Comment	

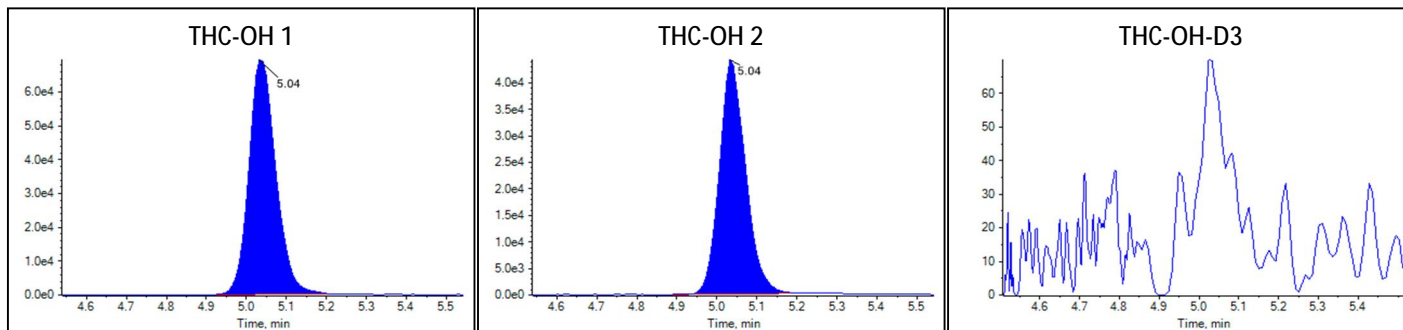
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	5079.2923	<2 points		

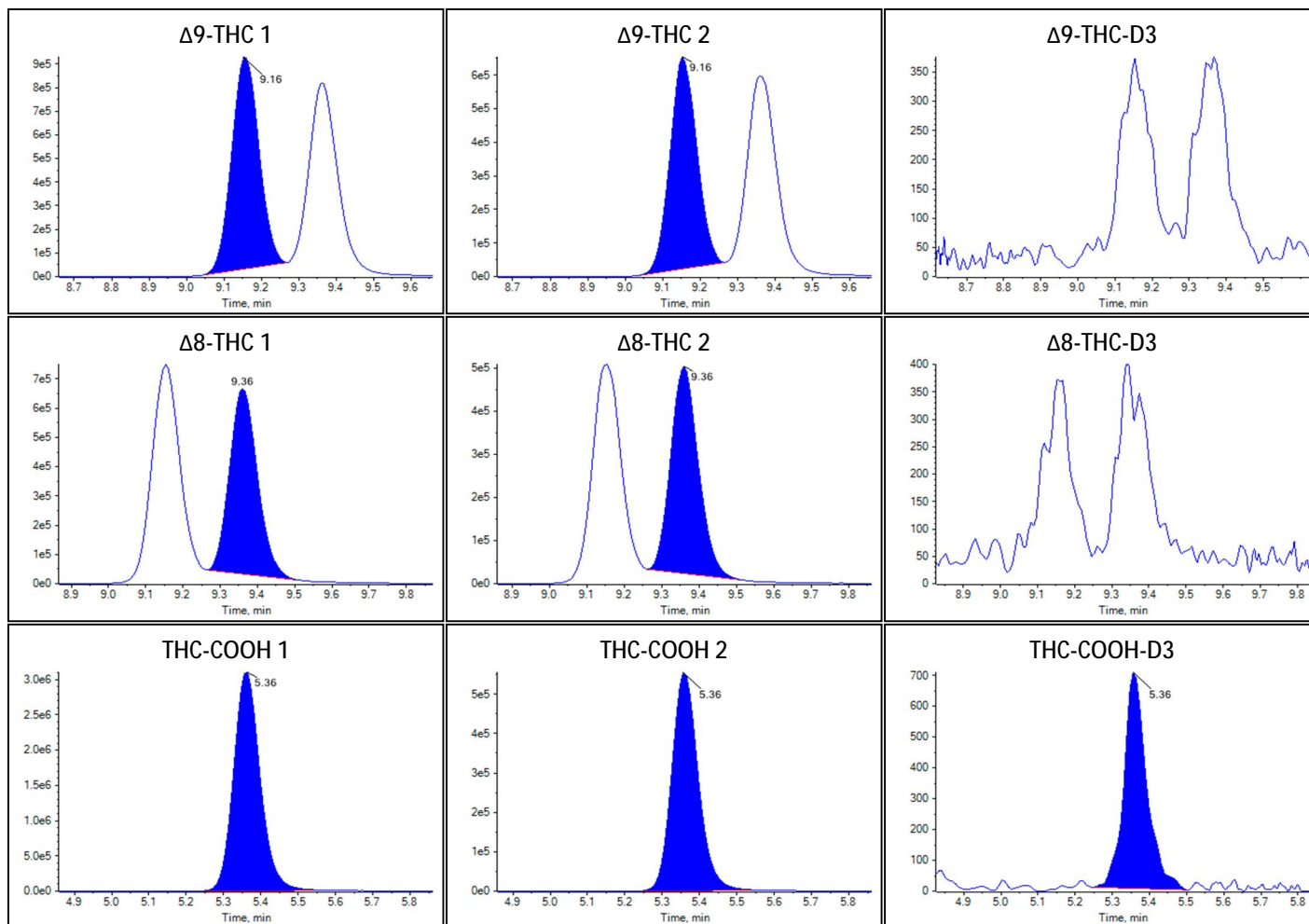
Identification Summary: Standard 3

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	0.617(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	0.690(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	0.746(Not calculated)
THC-COOH 1	343.0 / 299.1	1.000(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.000(Not calculated)	0.178(Not calculated)

Peak Review: Standard 3



Peak Review: Standard 3





Sample Summary

Sample Name	Standard 3
Acquisition Date/Time	2022-09-23T06:31:15
Acquisition Method	THC.dam
Batch Name	New Batch.dab
Results Table	20220922 D3-THC-COOH interference
Sample Type	Unknown
File Name	20220922 THC-COOH interference on THC-COOH-D3.wiff
Position	63
Sample Comment	

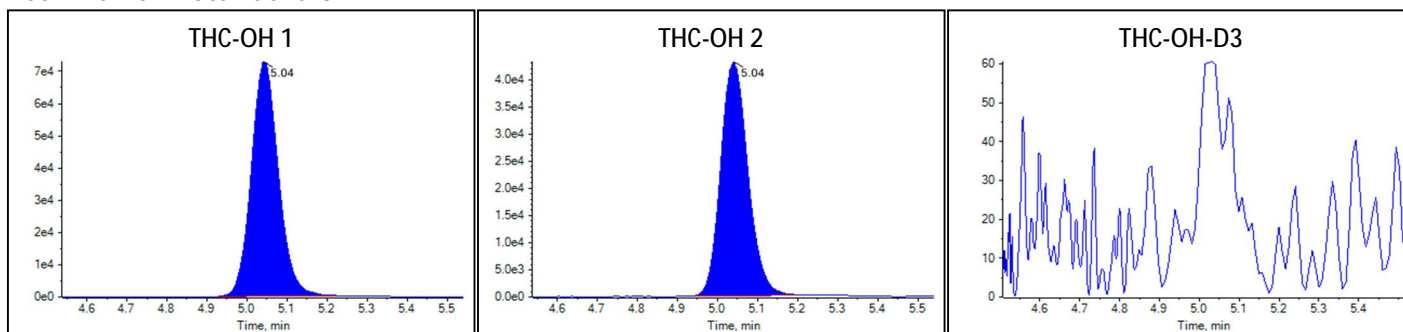
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	4791.4102	<2 points		

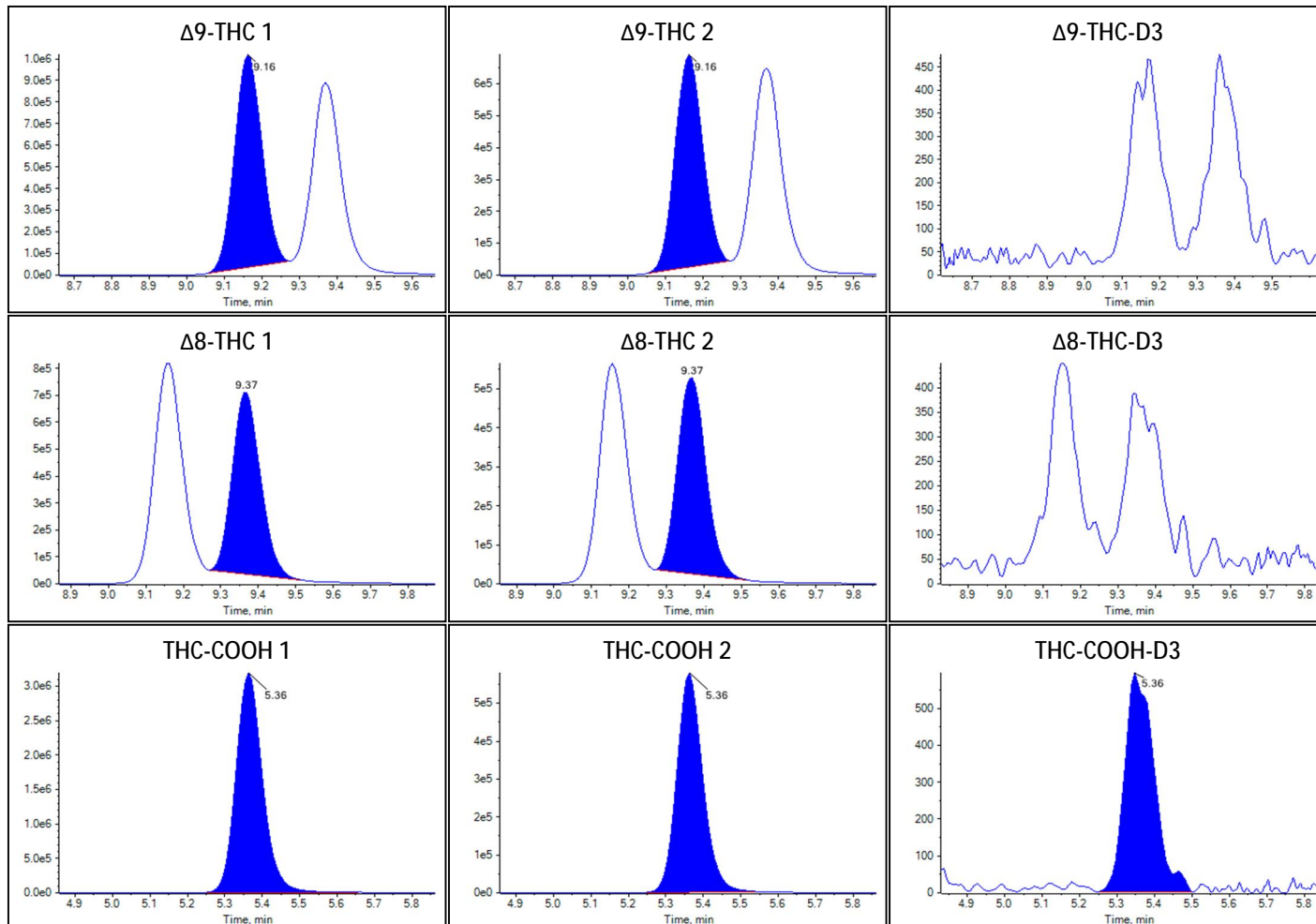
Identification Summary: Standard 3

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	0.598(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	0.684(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	0.757(Not calculated)
THC-COOH 1	343.0 / 299.1	1.000(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.000(Not calculated)	0.178(Not calculated)

Peak Review: Standard 3



Peak Review: Standard 3





Sample Summary

Sample Name	Standard 4
Acquisition Date/Time	2022-09-23T06:45:20
Acquisition Method	THC.dam
Batch Name	New Batch.dab
Results Table	20220922 D3-THC-COOH interference
Sample Type	Unknown
File Name	20220922 THC-COOH interference on THC-COOH-D3.wiff
Position	64
Sample Comment	

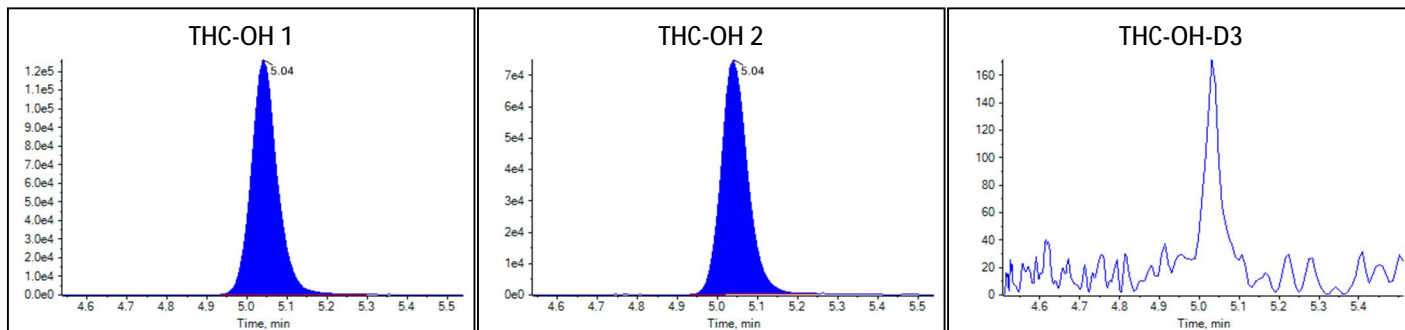
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	5198.5708	<2 points		

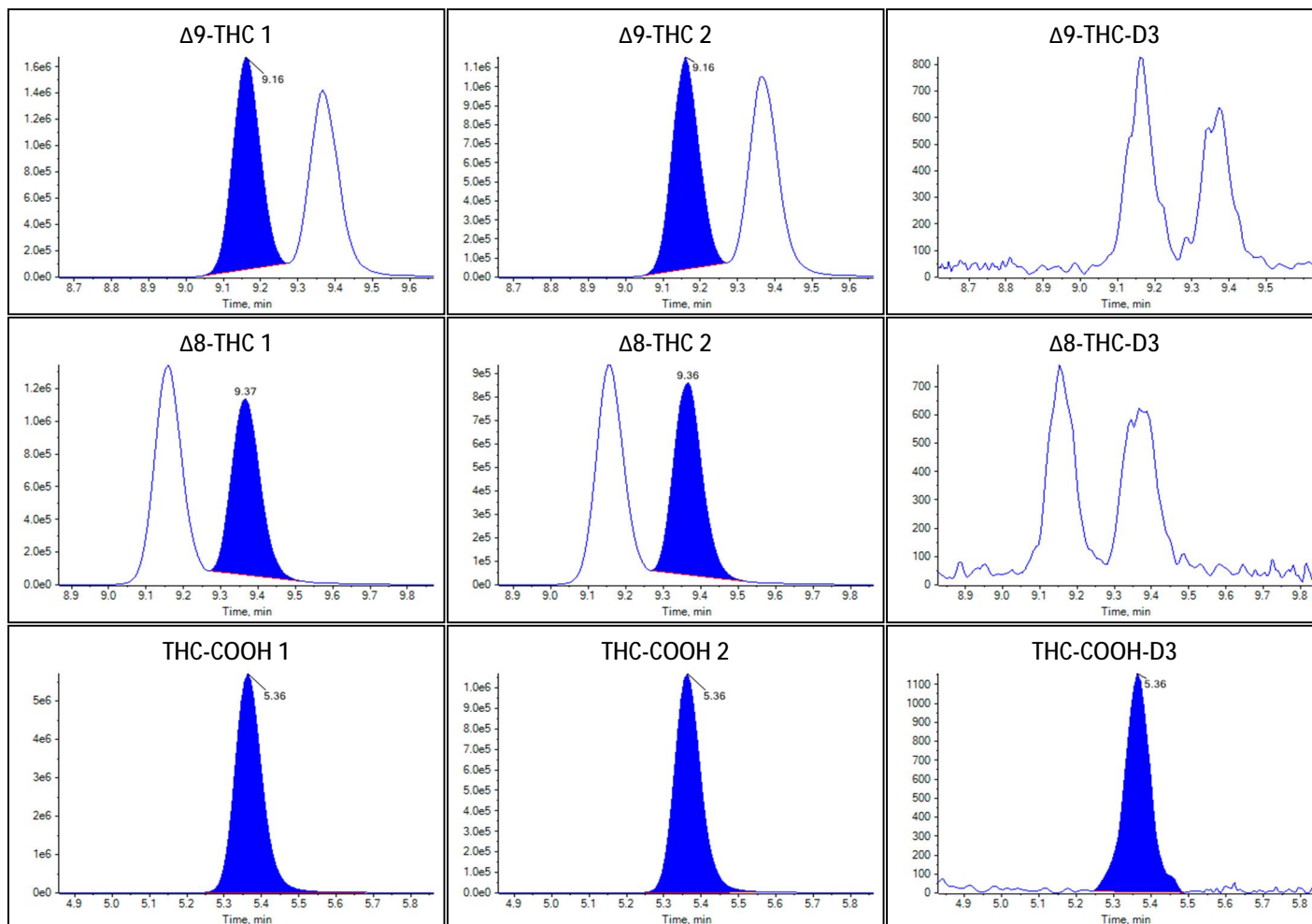
Identification Summary: Standard 4

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	0.606(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	0.682(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	0.760(Not calculated)
THC-COOH 1	343.0 / 299.1	1.000(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.000(Not calculated)	0.182(Not calculated)

Peak Review: Standard 4



Peak Review: Standard 4





Sample Summary

Sample Name	Standard 4
Acquisition Date/Time	2022-09-23T06:59:25
Acquisition Method	THC.dam
Batch Name	New Batch.dab
Results Table	20220922 D3-THC-COOH interference
Sample Type	Unknown
File Name	20220922 THC-COOH interference on THC-COOH-D3.wiff
Position	65
Sample Comment	

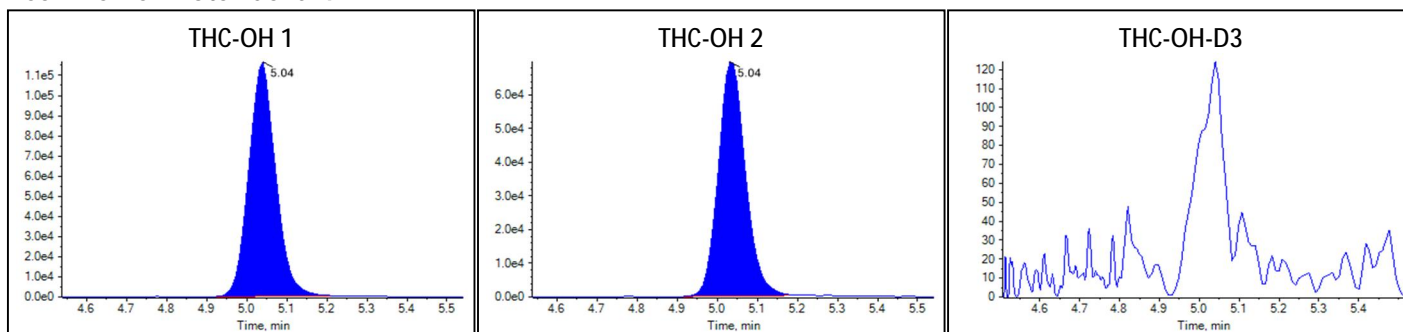
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	5596.0558	<2 points		

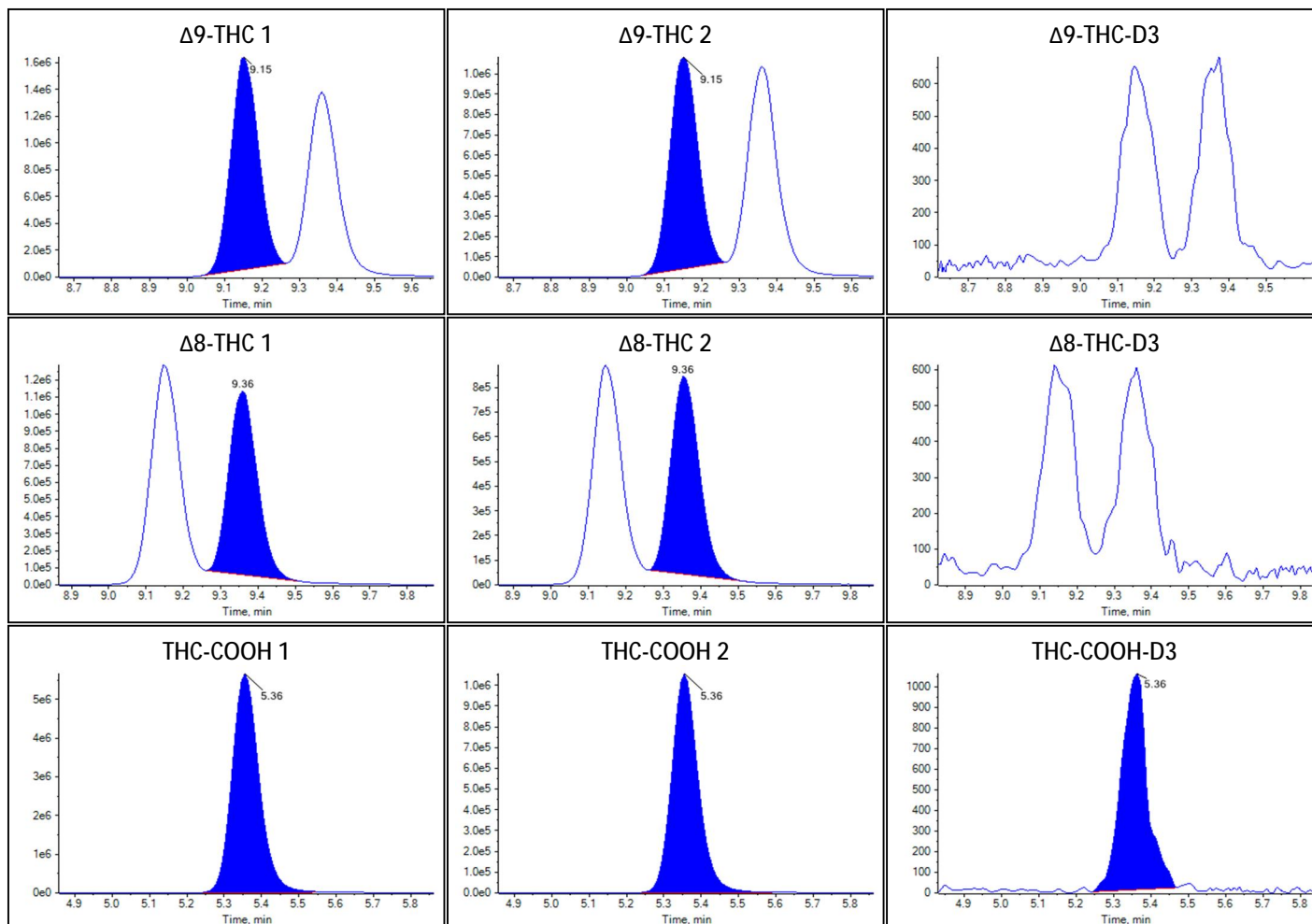
Identification Summary: Standard 4

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	0.608(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	0.675(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	0.745(Not calculated)
THC-COOH 1	343.0 / 299.1	1.000(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.000(Not calculated)	0.182(Not calculated)

Peak Review: Standard 4



Peak Review: Standard 4





Sample Summary

Sample Name	Standard 4
Acquisition Date/Time	2022-09-23T07:13:31
Acquisition Method	THC.dam
Batch Name	New Batch.dab
Results Table	20220922 D3-THC-COOH interference
Sample Type	Unknown
File Name	20220922 THC-COOH interference on THC-COOH-D3.wiff
Position	66
Sample Comment	

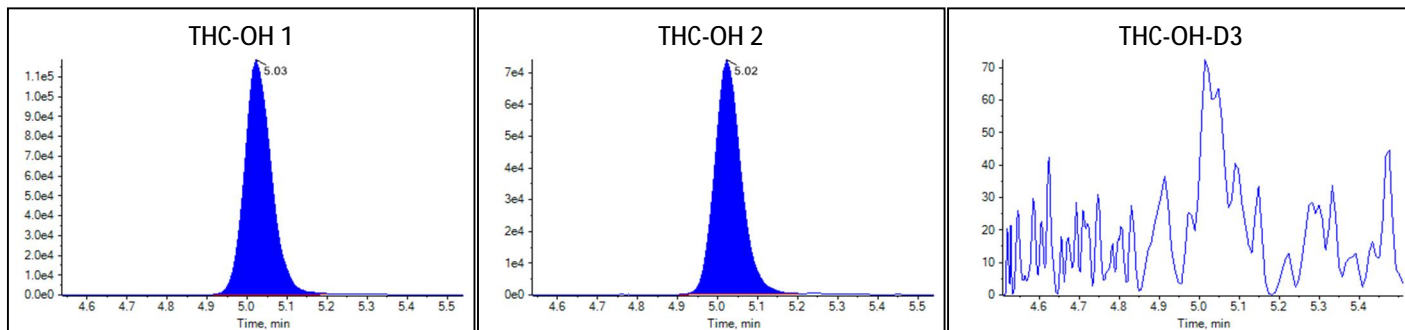
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	5318.6169	<2 points		

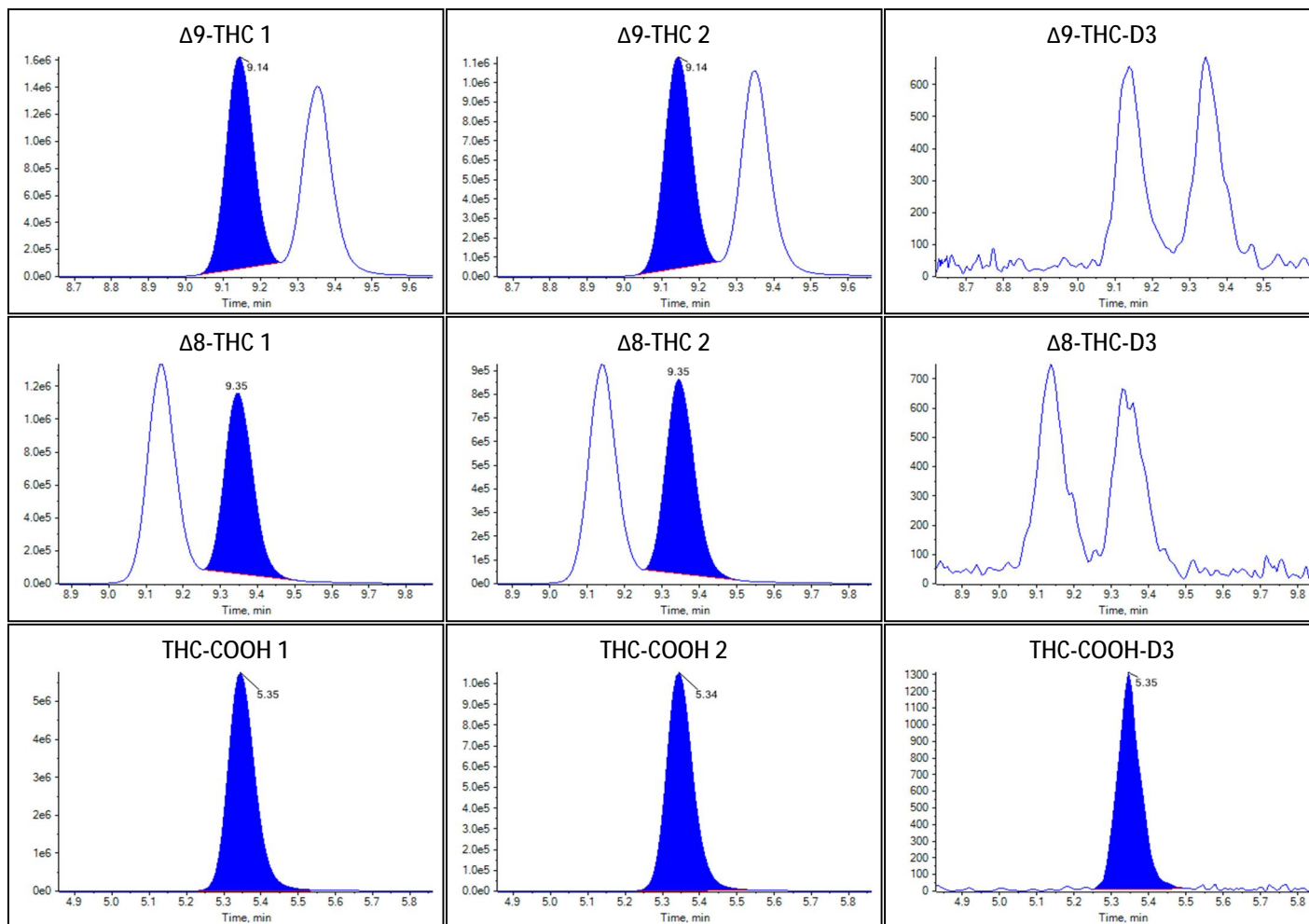
Identification Summary: Standard 4

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	0.615(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	0.694(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	0.753(Not calculated)
THC-COOH 1	343.0 / 299.1	1.000(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.000(Not calculated)	0.181(Not calculated)

Peak Review: Standard 4



Peak Review: Standard 4





Sample Summary

Sample Name	Standard 4
Acquisition Date/Time	2022-09-23T07:27:36
Acquisition Method	THC.dam
Batch Name	New Batch.dab
Results Table	20220922 D3-THC-COOH interference
Sample Type	Unknown
File Name	20220922 THC-COOH interference on THC-COOH-D3.wiff
Position	67
Sample Comment	

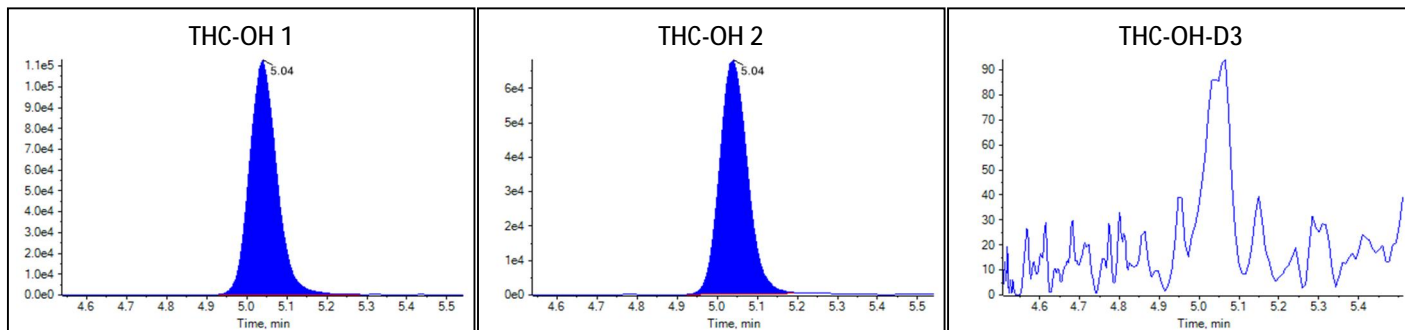
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	5247.7847	<2 points		

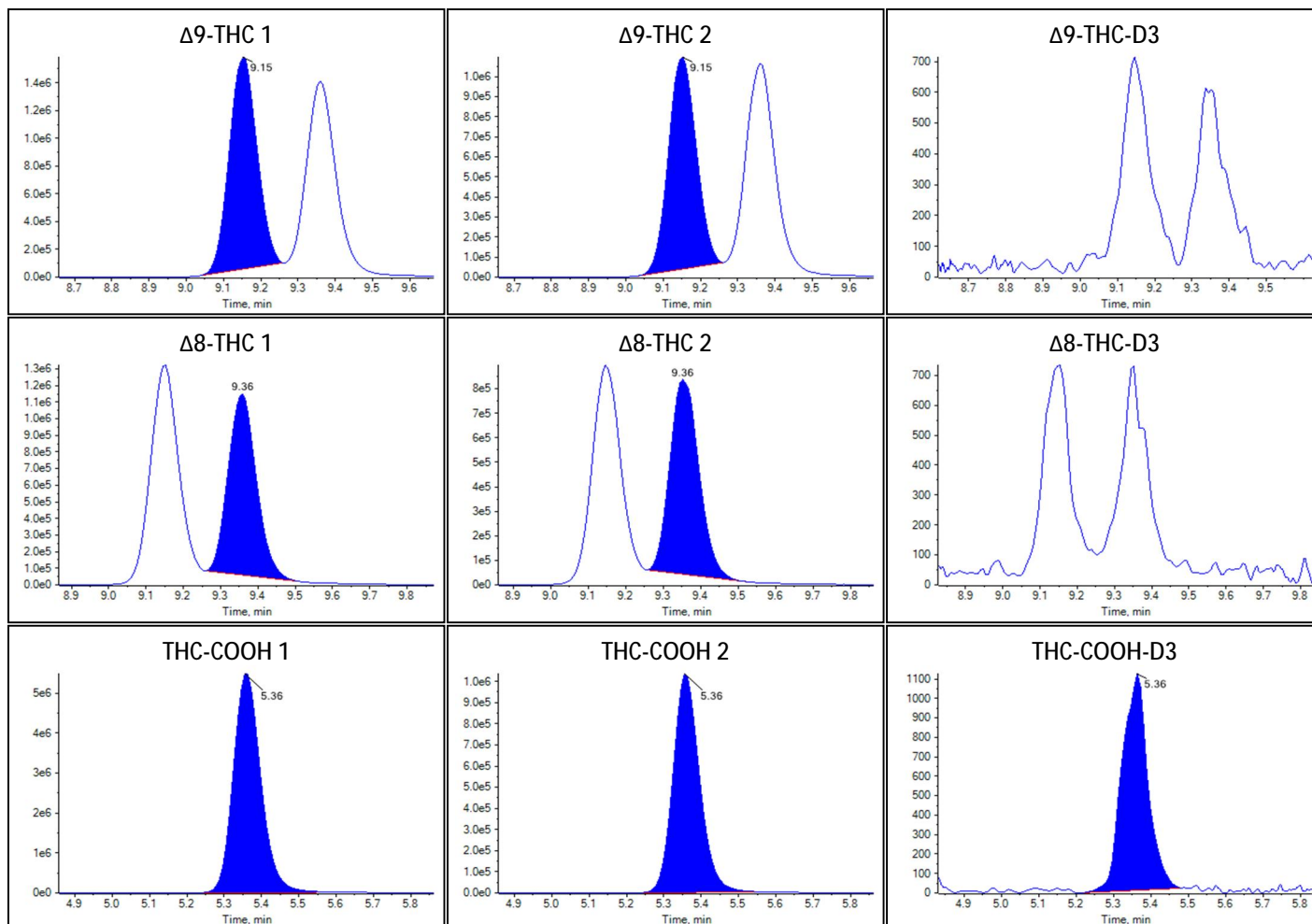
Identification Summary: Standard 4

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	0.619(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	0.693(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	0.750(Not calculated)
THC-COOH 1	343.0 / 299.1	1.000(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.000(Not calculated)	0.182(Not calculated)

Peak Review: Standard 4



Peak Review: Standard 4





Sample Summary

Sample Name	Standard 4
Acquisition Date/Time	2022-09-23T07:41:42
Acquisition Method	THC.dam
Batch Name	New Batch.dab
Results Table	20220922 D3-THC-COOH interference
Sample Type	Unknown
File Name	20220922 THC-COOH interference on THC-COOH-D3.wiff
Position	68
Sample Comment	

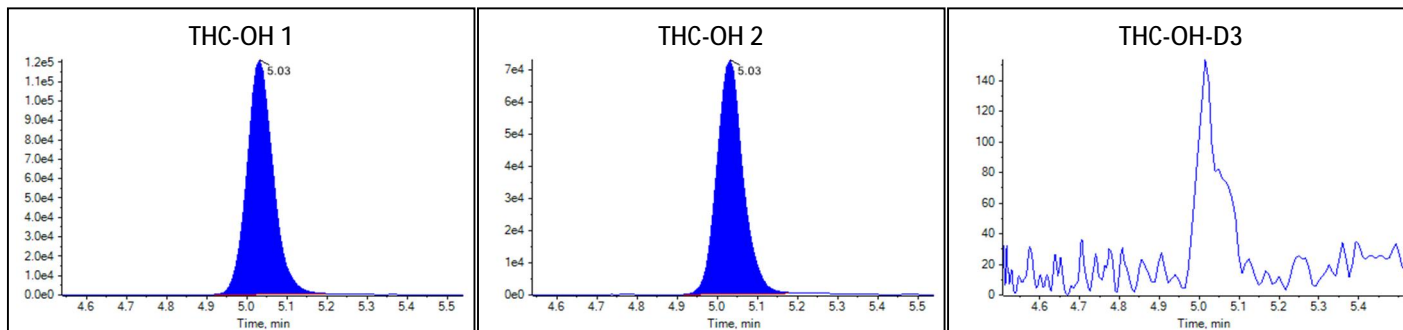
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	4757.7926	<2 points		

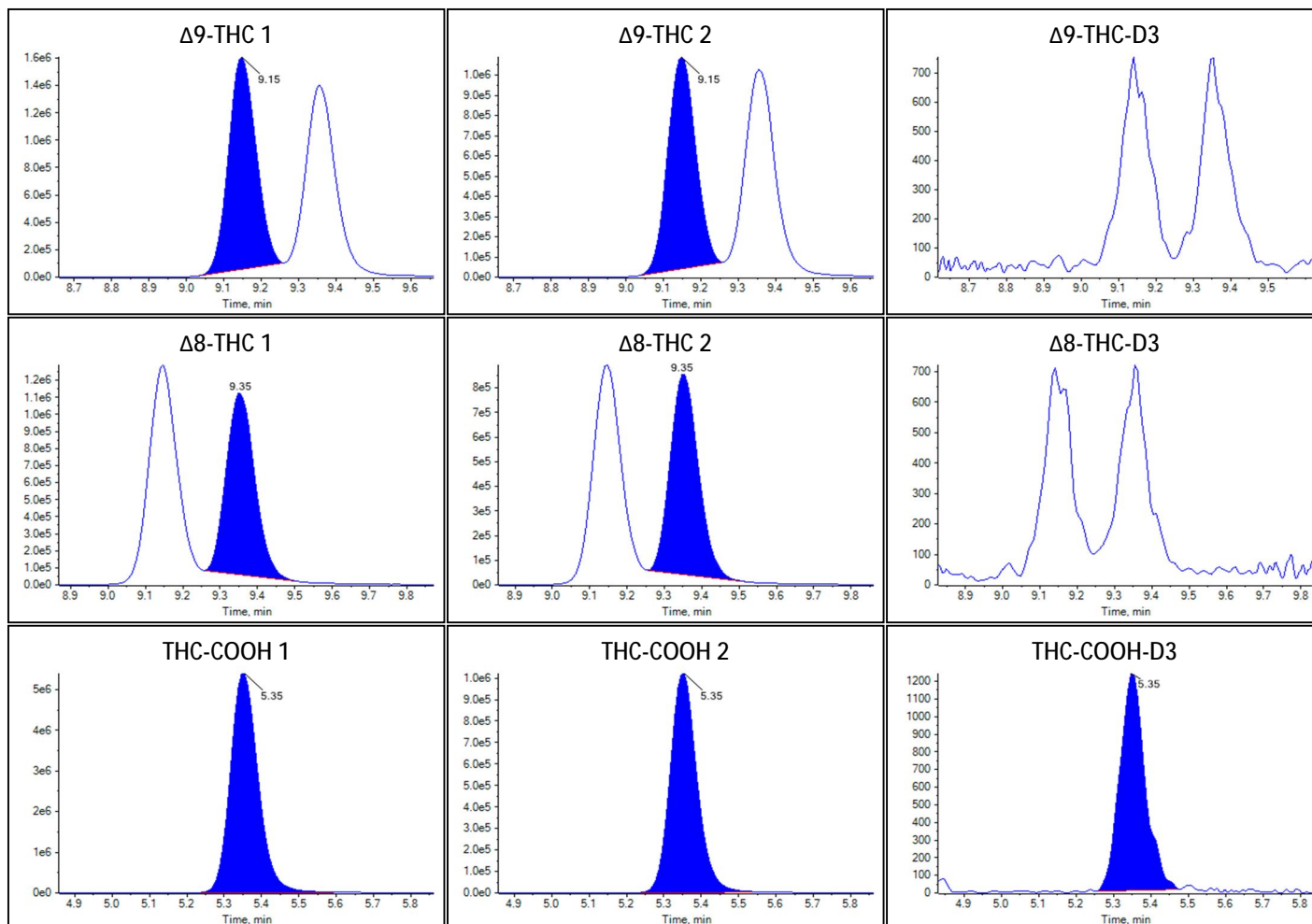
Identification Summary: Standard 4

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	0.600(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	0.686(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	0.755(Not calculated)
THC-COOH 1	343.0 / 299.1	1.000(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.000(Not calculated)	0.184(Not calculated)

Peak Review: Standard 4



Peak Review: Standard 4





Sample Summary

Sample Name	Standard 5
Acquisition Date/Time	2022-09-23T07:55:47
Acquisition Method	THC.dam
Batch Name	New Batch.dab
Results Table	20220922 D3-THC-COOH interference
Sample Type	Unknown
File Name	20220922 THC-COOH interference on THC-COOH-D3.wiff
Position	69
Sample Comment	

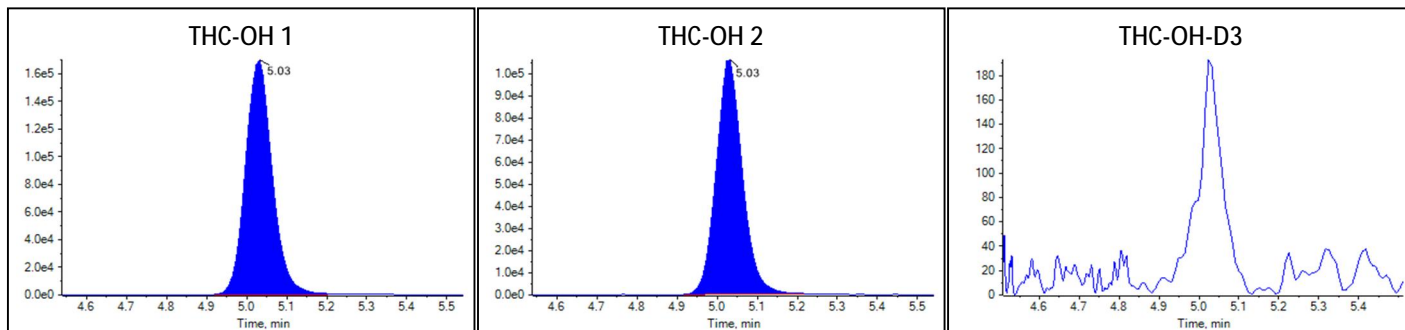
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	5276.9307	<2 points		

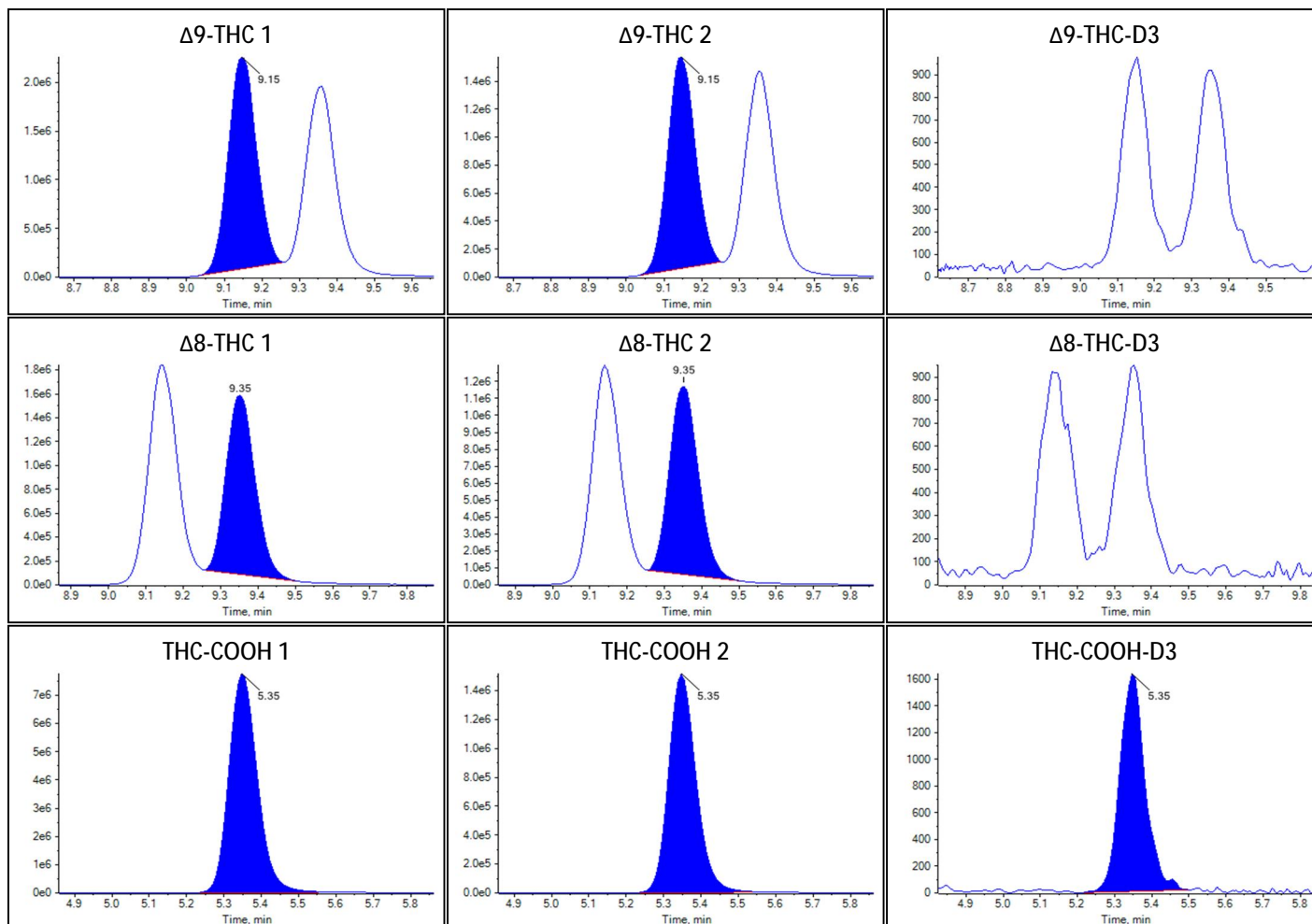
Identification Summary: Standard 5

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	0.608(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	0.681(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	0.742(Not calculated)
THC-COOH 1	343.0 / 299.1	1.000(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.000(Not calculated)	0.188(Not calculated)

Peak Review: Standard 5



Peak Review: Standard 5





Sample Summary

Sample Name	Standard 5
Acquisition Date/Time	2022-09-23T08:09:52
Acquisition Method	THC.dam
Batch Name	New Batch.dab
Results Table	20220922 D3-THC-COOH interference
Sample Type	Unknown
File Name	20220922 THC-COOH interference on THC-COOH-D3.wiff
Position	70
Sample Comment	

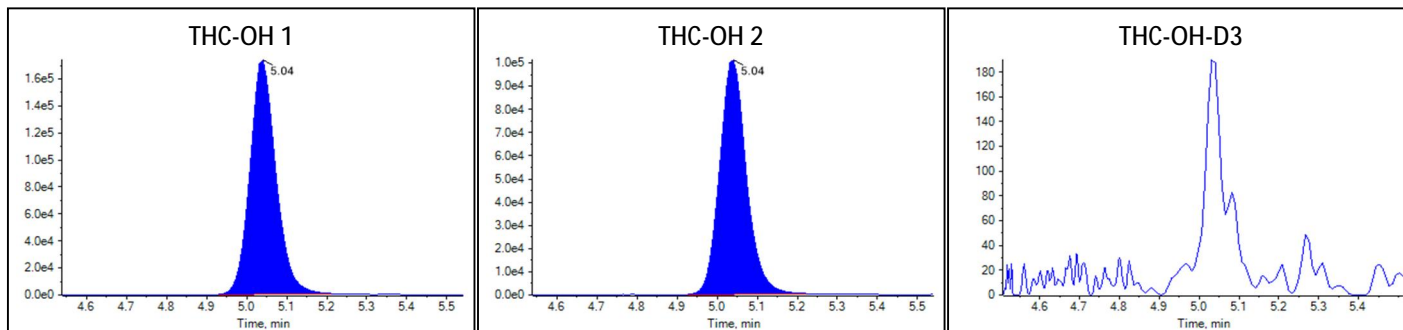
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	5185.7157	<2 points		

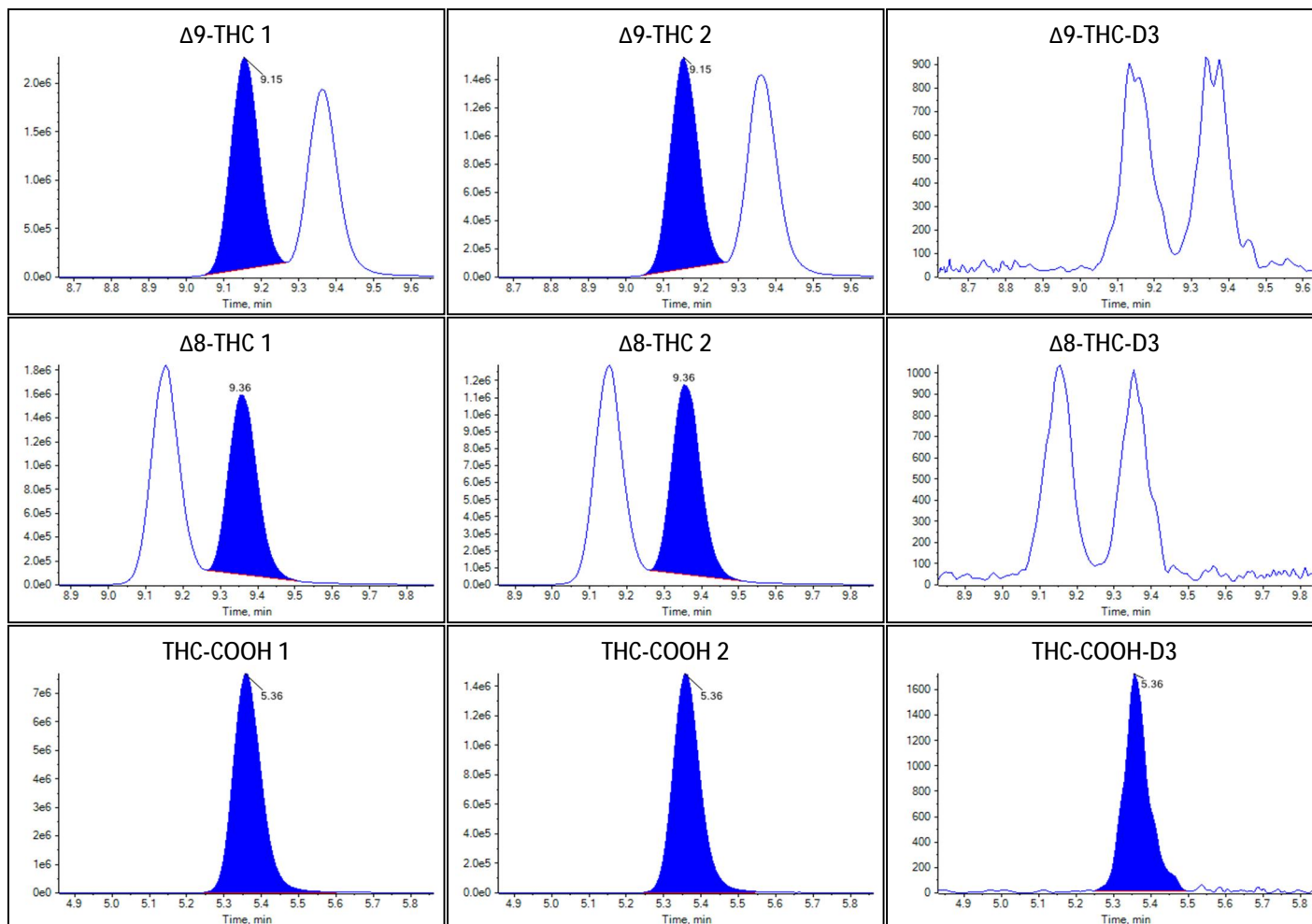
Identification Summary: Standard 5

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	0.601(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	0.683(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	0.746(Not calculated)
THC-COOH 1	343.0 / 299.1	1.000(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.000(Not calculated)	0.187(Not calculated)

Peak Review: Standard 5



Peak Review: Standard 5





Sample Summary

Sample Name	Standard 5
Acquisition Date/Time	2022-09-23T08:23:58
Acquisition Method	THC.dam
Batch Name	New Batch.dab
Results Table	20220922 D3-THC-COOH interference
Sample Type	Unknown
File Name	20220922 THC-COOH interference on THC-COOH-D3.wiff
Position	71
Sample Comment	

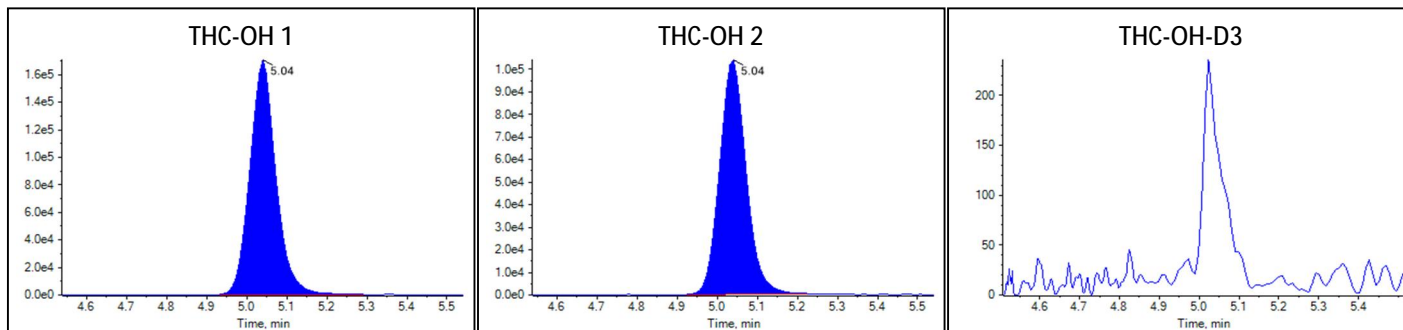
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	5218.2060	<2 points		

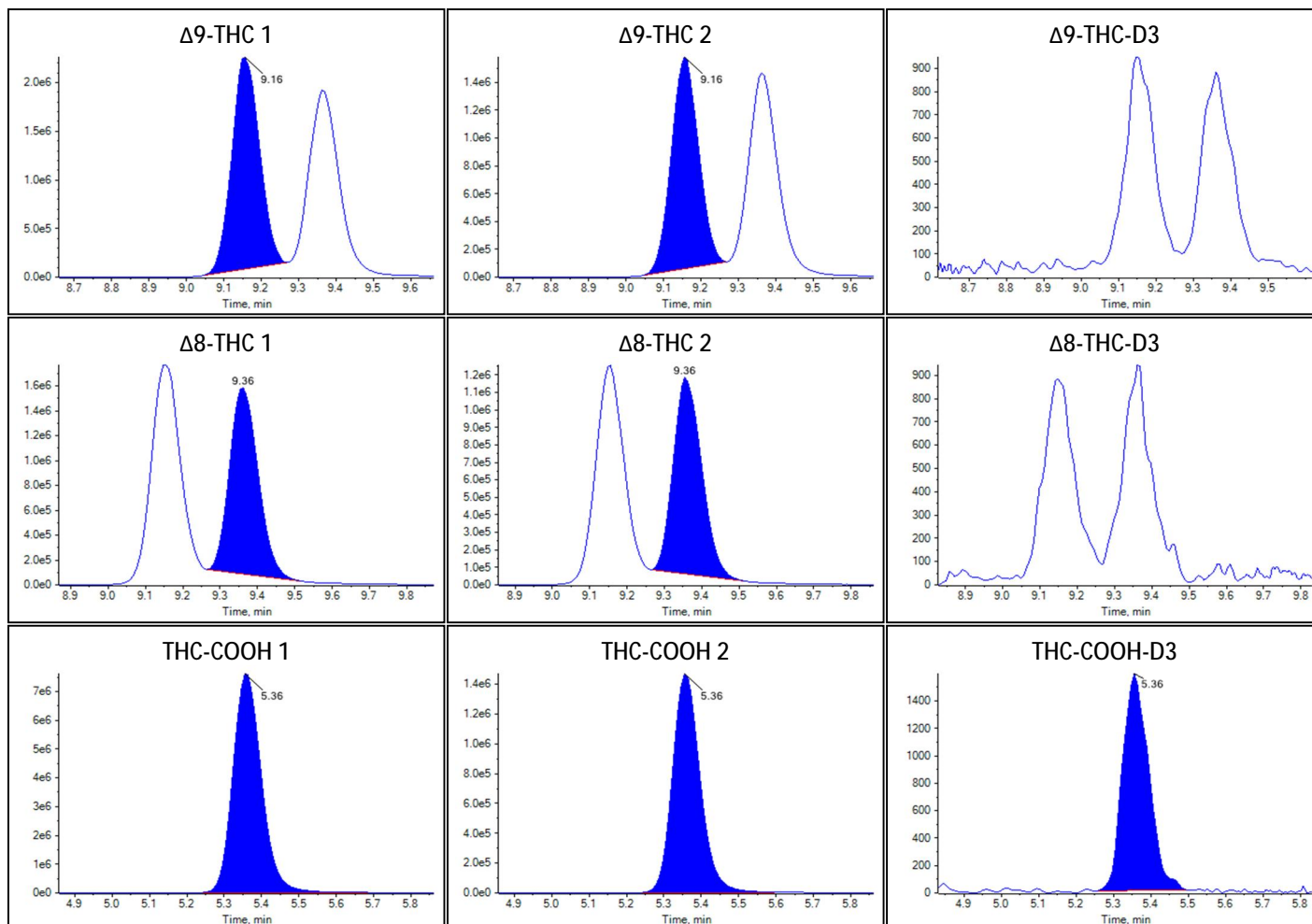
Identification Summary: Standard 5

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	0.622(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	0.683(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	0.744(Not calculated)
THC-COOH 1	343.0 / 299.1	1.000(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.000(Not calculated)	0.187(Not calculated)

Peak Review: Standard 5



Peak Review: Standard 5





Sample Summary

Sample Name	Standard 5
Acquisition Date/Time	2022-09-23T08:38:03
Acquisition Method	THC.dam
Batch Name	New Batch.dab
Results Table	20220922 D3-THC-COOH interference
Sample Type	Unknown
File Name	20220922 THC-COOH interference on THC-COOH-D3.wiff
Position	72
Sample Comment	

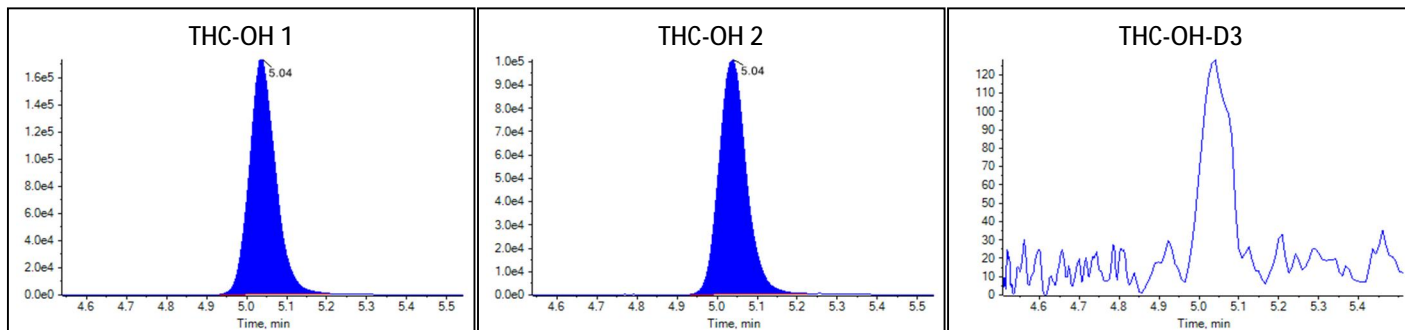
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	5053.6935	<2 points		

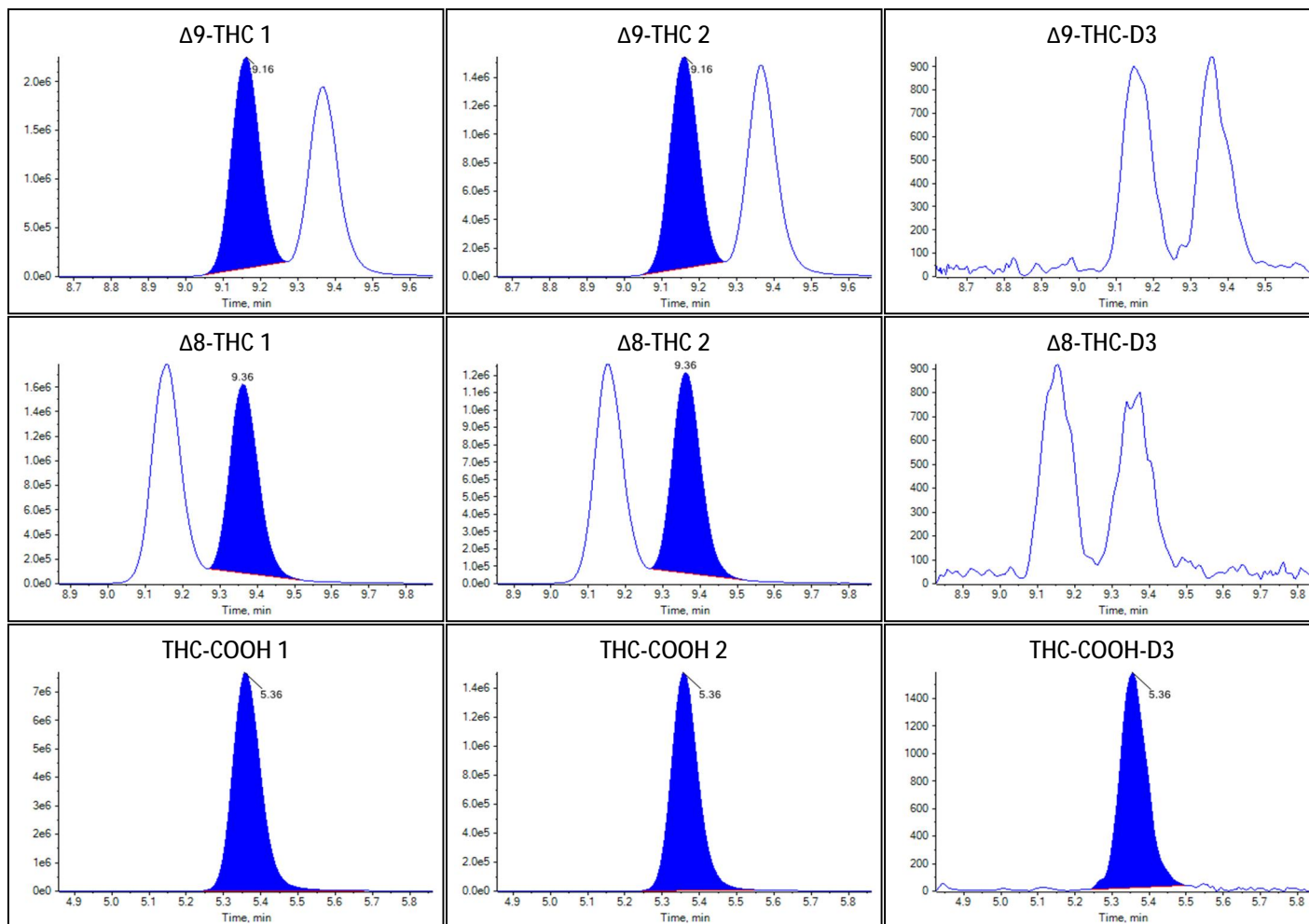
Identification Summary: Standard 5

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	0.606(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	0.693(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	0.755(Not calculated)
THC-COOH 1	343.0 / 299.1	1.000(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.000(Not calculated)	0.187(Not calculated)

Peak Review: Standard 5



Peak Review: Standard 5





Sample Summary

Sample Name	Standard 5
Acquisition Date/Time	2022-09-23T08:52:09
Acquisition Method	THC.dam
Batch Name	New Batch.dab
Results Table	20220922 D3-THC-COOH interference
Sample Type	Unknown
File Name	20220922 THC-COOH interference on THC-COOH-D3.wiff
Position	73
Sample Comment	

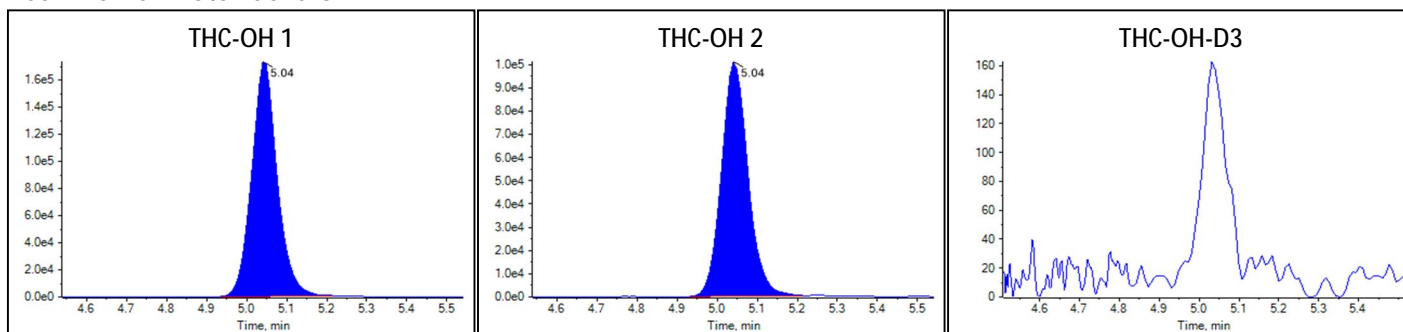
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	5411.2235	<2 points		

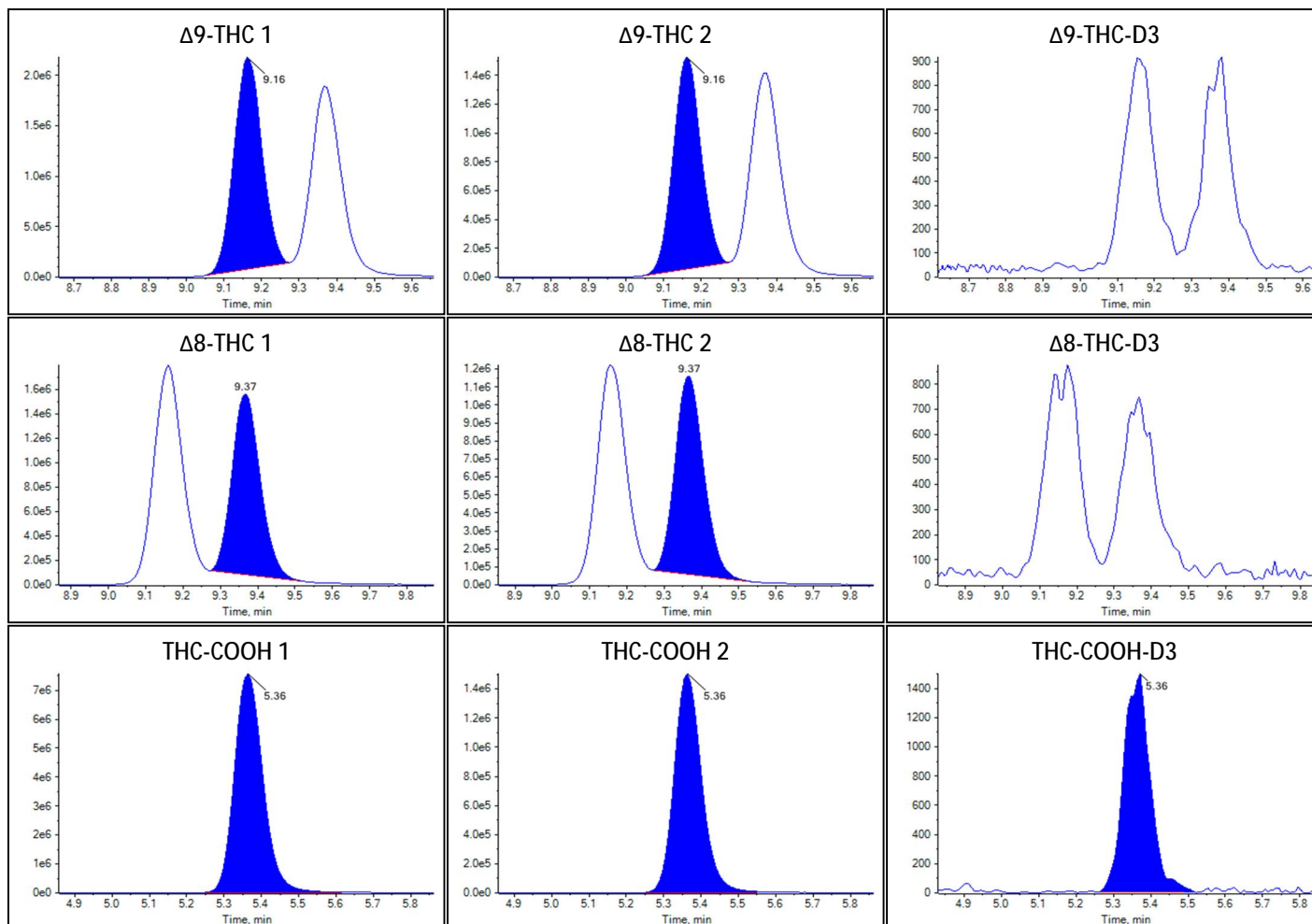
Identification Summary: Standard 5

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	0.605(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	0.691(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	0.755(Not calculated)
THC-COOH 1	343.0 / 299.1	1.000(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.000(Not calculated)	0.191(Not calculated)

Peak Review: Standard 5



Peak Review: Standard 5





Sample Summary

Sample Name	Standard 6
Acquisition Date/Time	2022-09-23T09:06:14
Acquisition Method	THC.dam
Batch Name	New Batch.dab
Results Table	20220922 D3-THC-COOH interference
Sample Type	Unknown
File Name	20220922 THC-COOH interference on THC-COOH-D3.wiff
Position	74
Sample Comment	

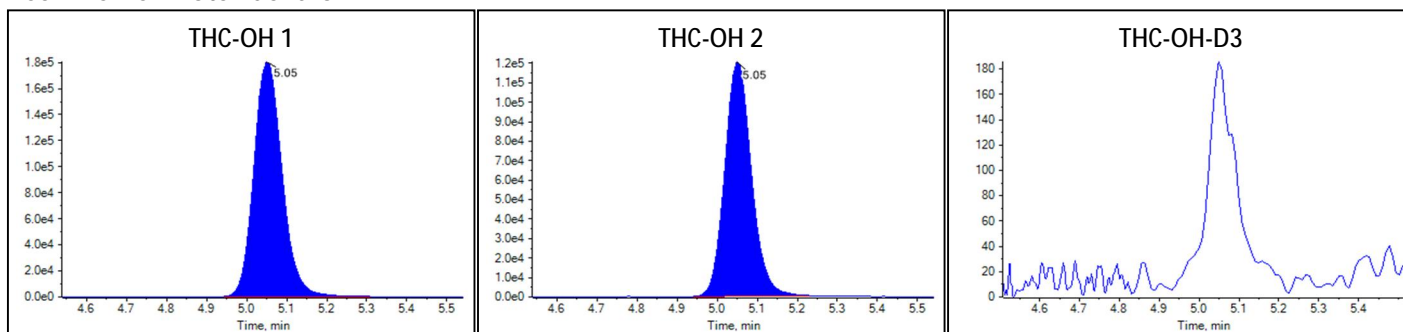
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	5306.4453	<2 points		

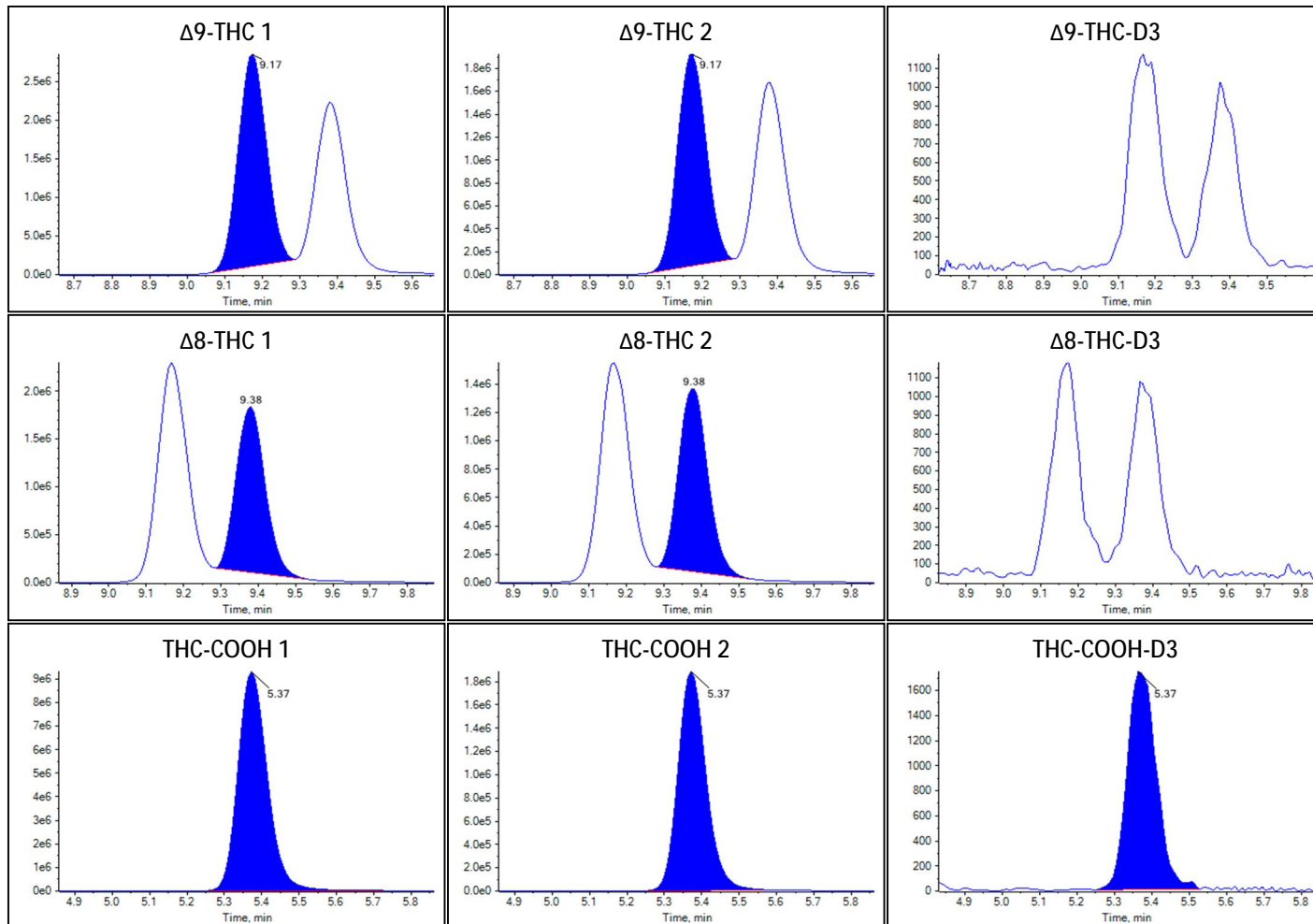
Identification Summary: Standard 6

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	0.630(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	0.683(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	0.752(Not calculated)
THC-COOH 1	343.0 / 299.1	1.000(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.000(Not calculated)	0.193(Not calculated)

Peak Review: Standard 6



Peak Review: Standard 6





Sample Summary

Sample Name	Standard 6
Acquisition Date/Time	2022-09-23T09:20:19
Acquisition Method	THC.dam
Batch Name	New Batch.dab
Results Table	20220922 D3-THC-COOH interference
Sample Type	Unknown
File Name	20220922 THC-COOH interference on THC-COOH-D3.wiff
Position	75
Sample Comment	

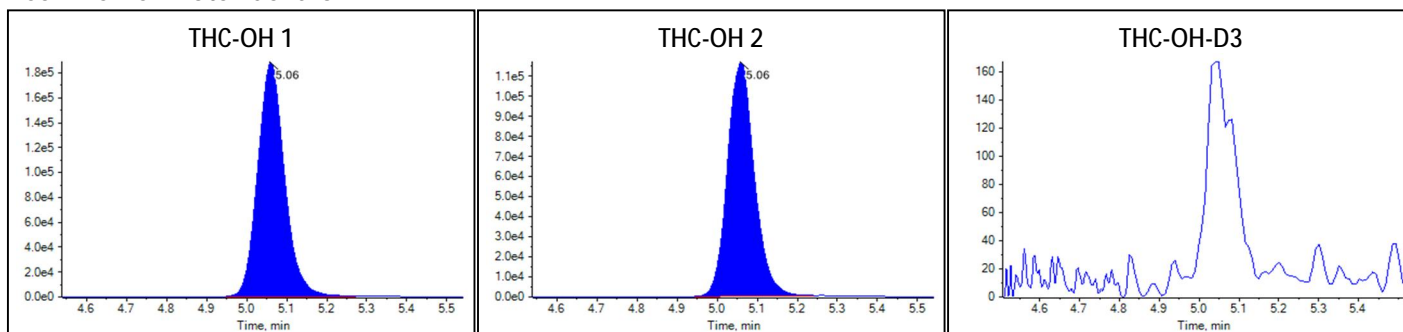
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	5022.7783	<2 points		

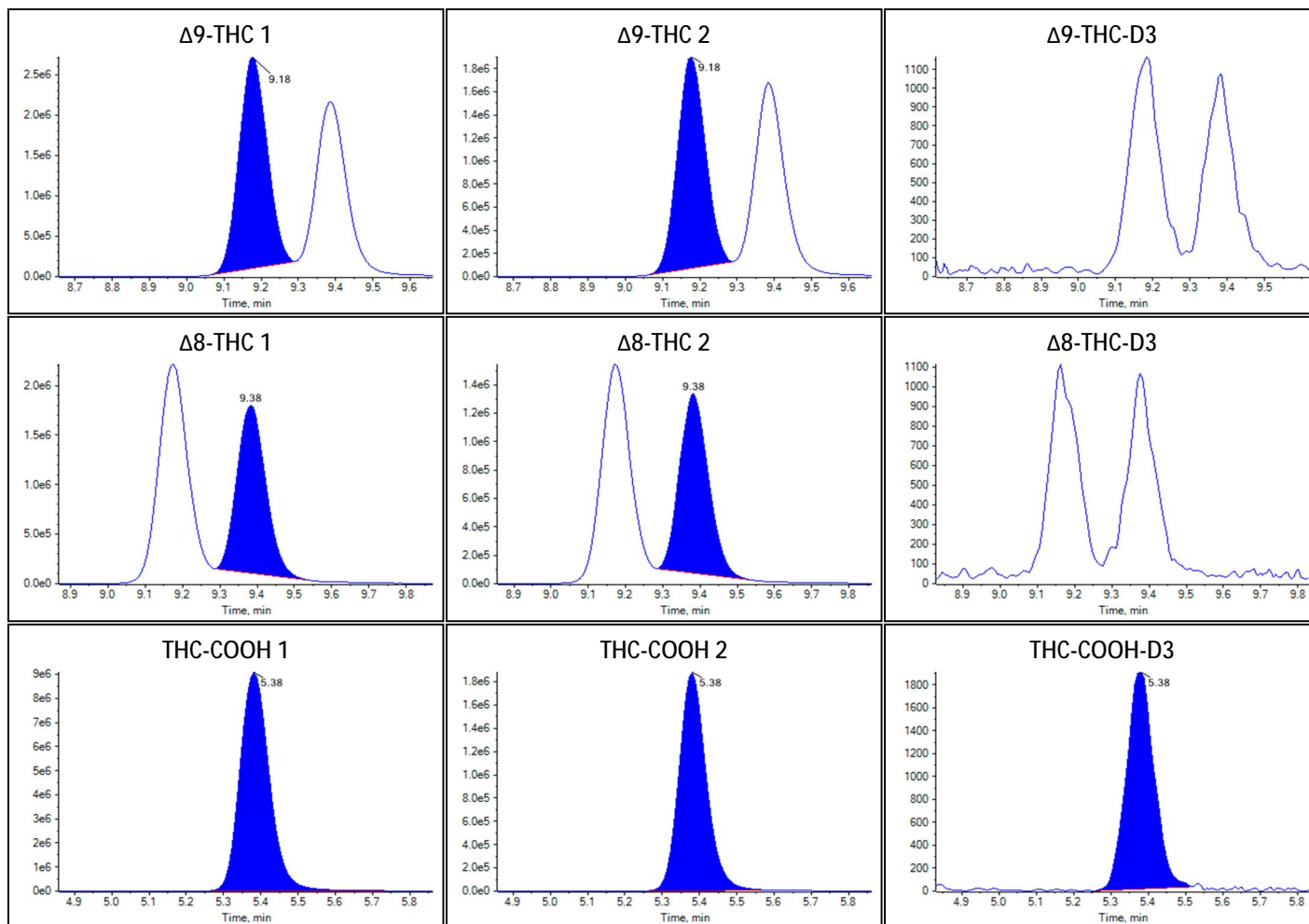
Identification Summary: Standard 6

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	0.621(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	0.696(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	0.747(Not calculated)
THC-COOH 1	343.0 / 299.1	1.000(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.000(Not calculated)	0.192(Not calculated)

Peak Review: Standard 6



Peak Review: Standard 6





Sample Summary

Sample Name	Standard 6
Acquisition Date/Time	2022-09-23T09:34:25
Acquisition Method	THC.dam
Batch Name	New Batch.dab
Results Table	20220922 D3-THC-COOH interference
Sample Type	Unknown
File Name	20220922 THC-COOH interference on THC-COOH-D3.wiff
Position	76
Sample Comment	

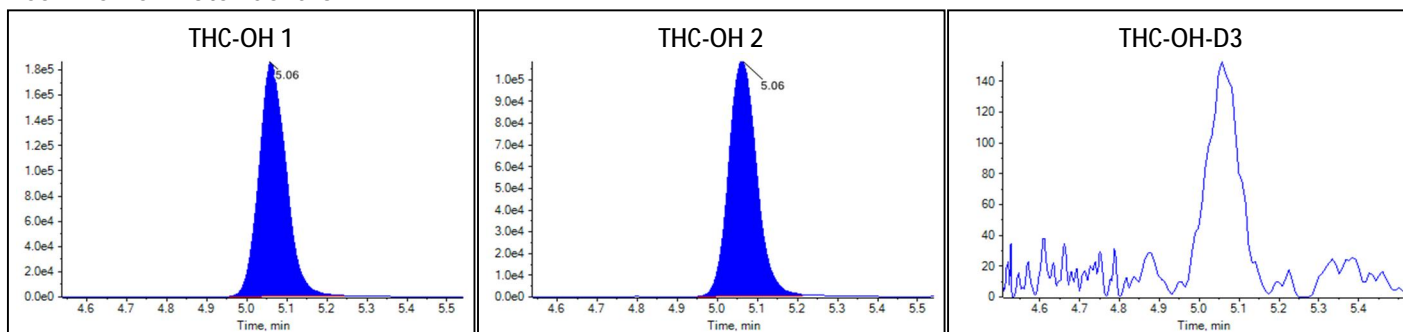
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	5008.6532	<2 points		

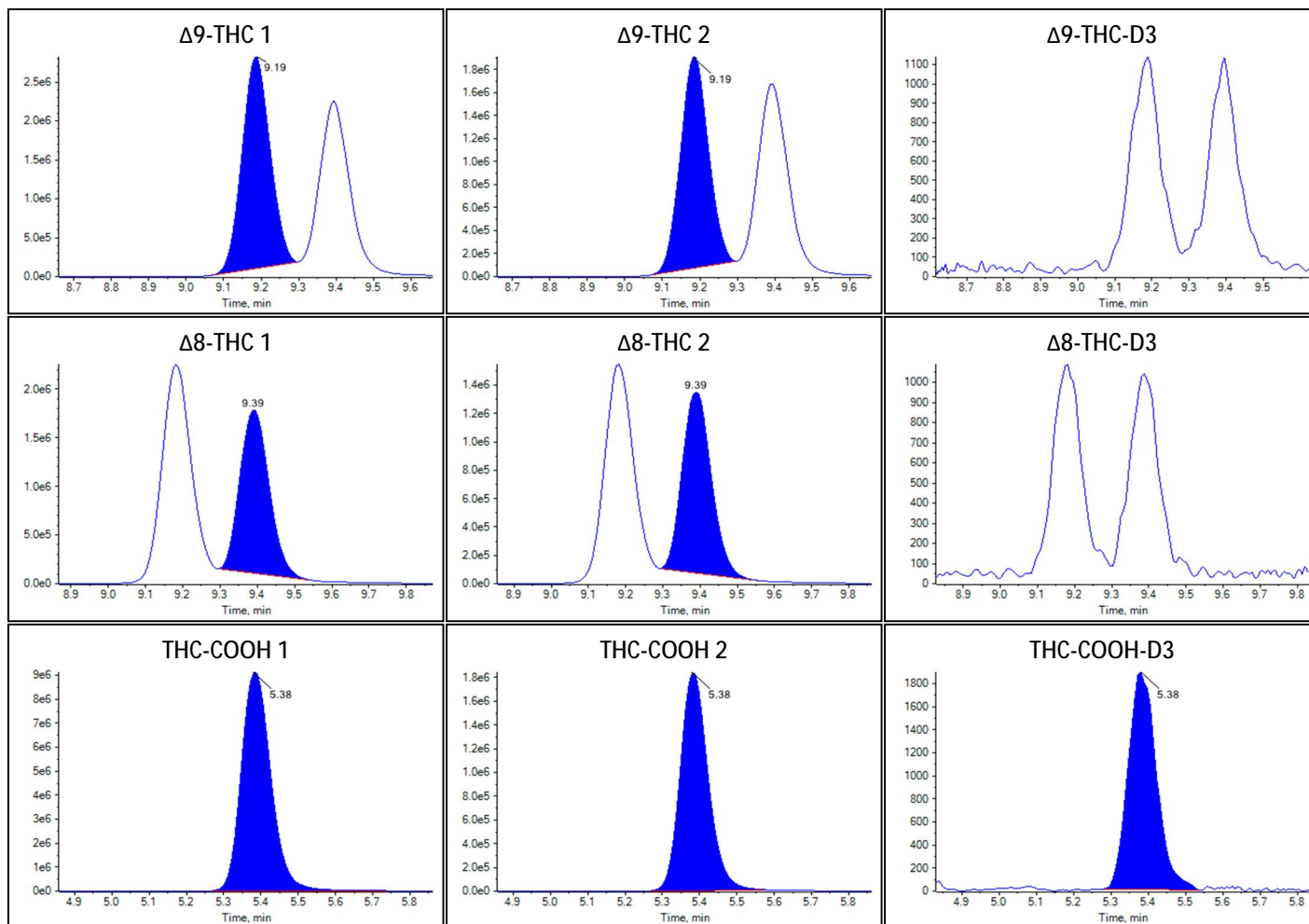
Identification Summary: Standard 6

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	0.603(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	0.677(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	0.760(Not calculated)
THC-COOH 1	343.0 / 299.1	1.000(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.000(Not calculated)	0.190(Not calculated)

Peak Review: Standard 6



Peak Review: Standard 6





Sample Summary

Sample Name	Standard 6
Acquisition Date/Time	2022-09-23T09:48:30
Acquisition Method	THC.dam
Batch Name	New Batch.dab
Results Table	20220922 D3-THC-COOH interference
Sample Type	Unknown
File Name	20220922 THC-COOH interference on THC-COOH-D3.wiff
Position	77
Sample Comment	

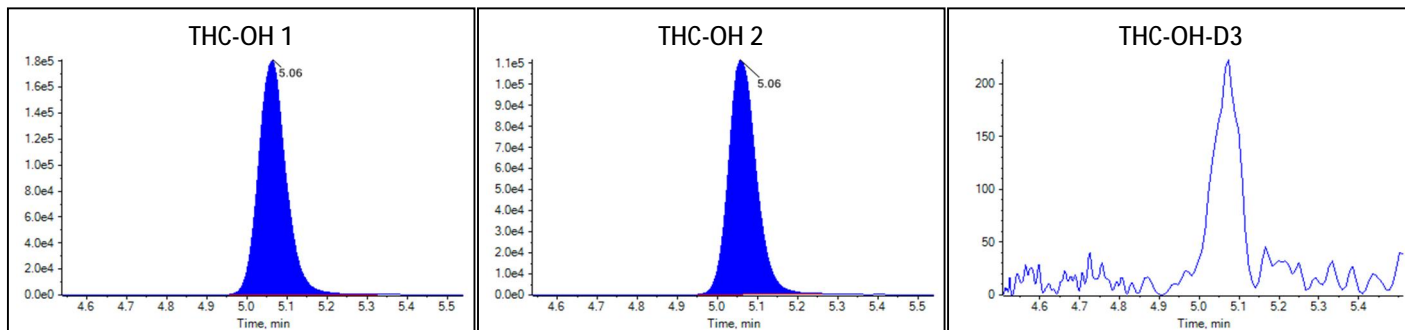
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	4898.9206	<2 points		

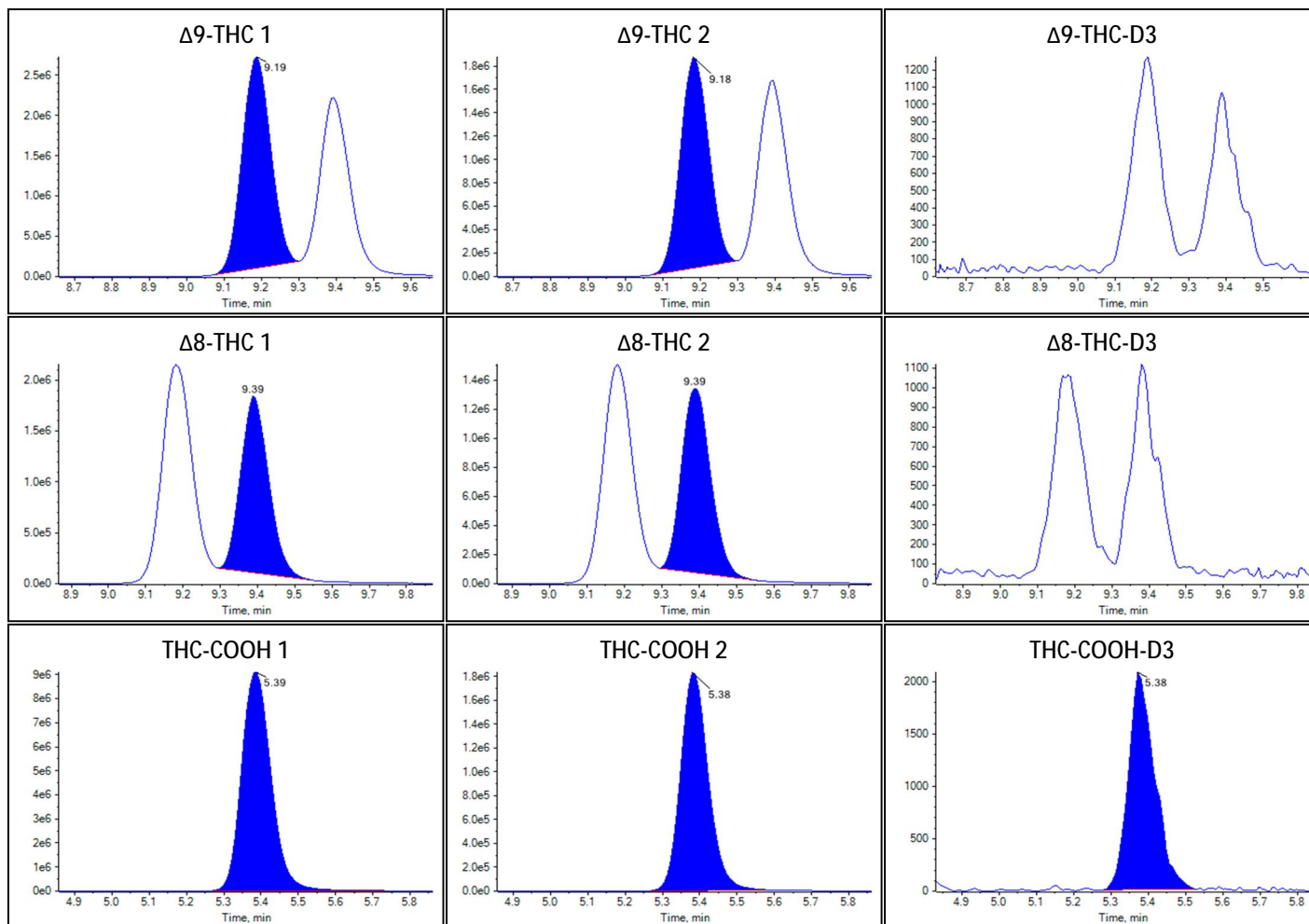
Identification Summary: Standard 6

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	0.623(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	0.683(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	0.759(Not calculated)
THC-COOH 1	343.0 / 299.1	1.000(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.000(Not calculated)	0.189(Not calculated)

Peak Review: Standard 6



Peak Review: Standard 6





Sample Summary

Sample Name	Standard 6
Acquisition Date/Time	2022-09-23T10:02:36
Acquisition Method	THC.dam
Batch Name	New Batch.dab
Results Table	20220922 D3-THC-COOH interference
Sample Type	Unknown
File Name	20220922 THC-COOH interference on THC-COOH-D3.wiff
Position	78
Sample Comment	

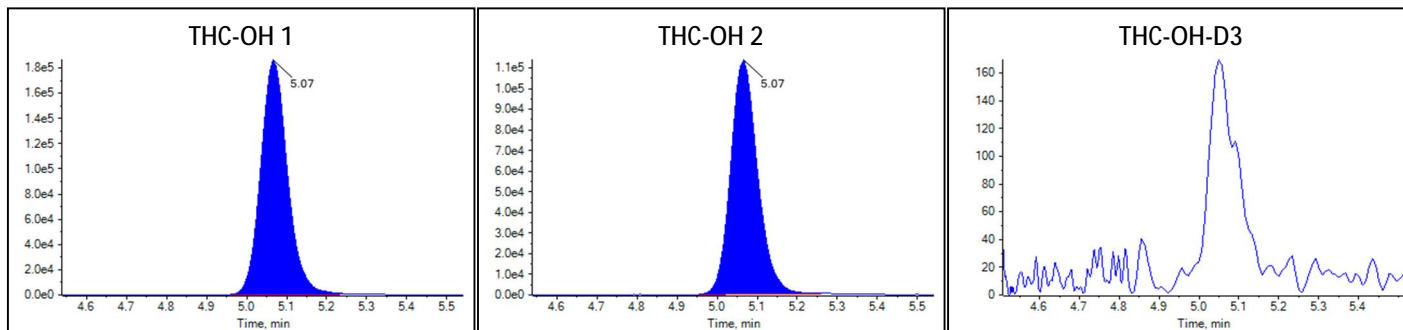
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	4878.1731	<2 points		

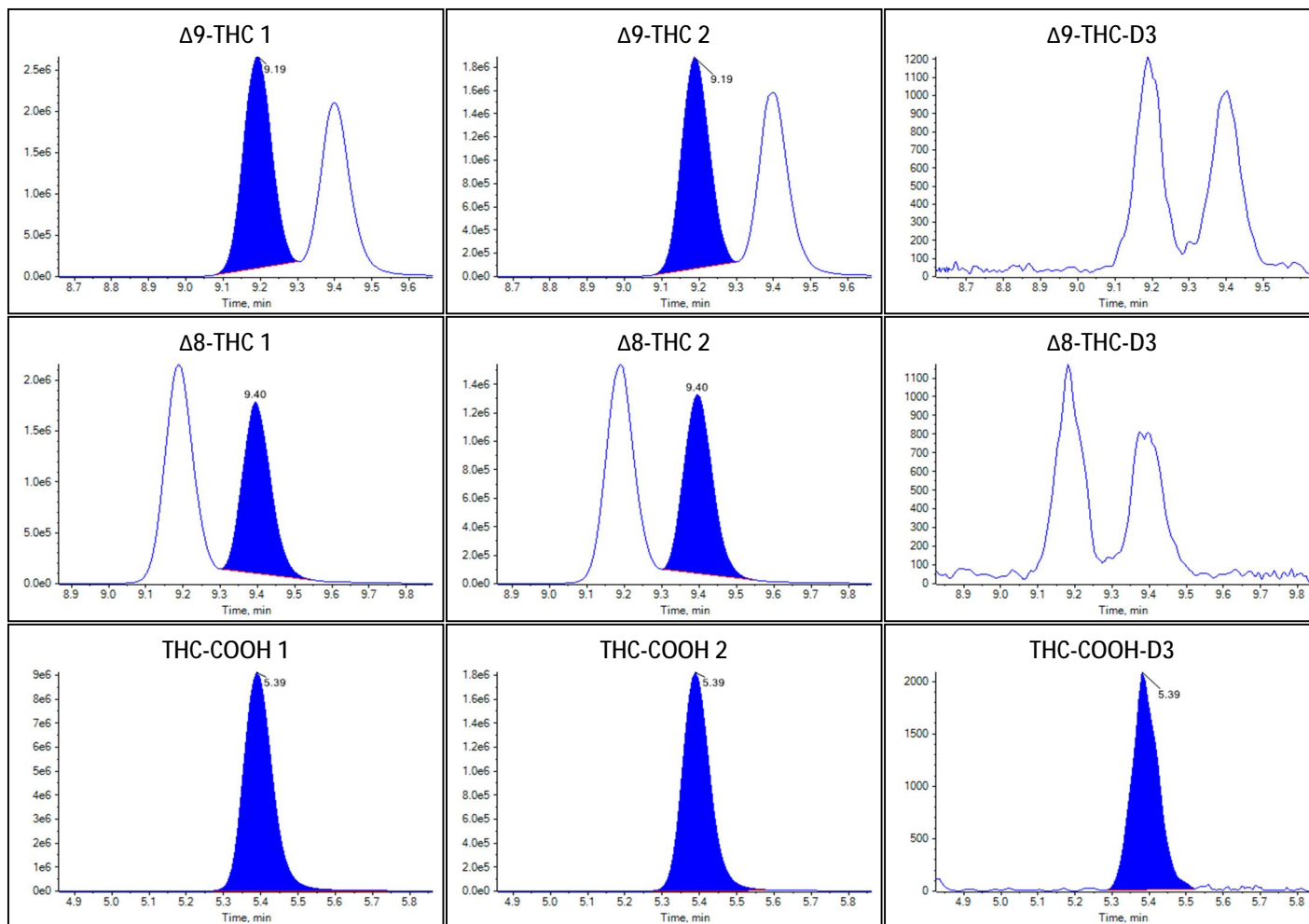
Identification Summary: Standard 6

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	0.614(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	0.696(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	0.758(Not calculated)
THC-COOH 1	343.0 / 299.1	1.000(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.000(Not calculated)	0.191(Not calculated)

Peak Review: Standard 6



Peak Review: Standard 6



ADDITIONAL INTERFERENCE STUDY
 Δ^8 -THC-OH, Δ^8 -THC-COOH, *exo*-THC

Cannabinoid Lot Log	
Date	10-13-22
Analyst	JUG
Checked tubes	N/A
Sample preparation	
Sample Pipette	003
Blank Blood	GA1
Standards	09-14-22 JUG
Controls	09-14-22 JUG
Standards/Controls Pipette	064
Internal Standard	09-14-22 SB
Internal Standard Pipette	103
0.1 % formic acid in H ₂ O	09-16-22 DMC
Extraction	
SLE Cartridge	820-2-26
MTBE	L322A-S
B: 0.1% formic acid in ACN	09-13-22 JUG
A: 0.1 % formic acid in H ₂ O	09-21-22 DMC
Instrumentation	
A: 0.1 % formic acid in H ₂ O	09-21-22 DMC
B: 0.1% formic acid in ACN	09-14-22 DMC
Column Serial Number	USC6C17438
Instrument	21-1
Sequence Check:	
Notes: <div style="display: flex; justify-content: space-between;"> <div> <p>Δ8-OH L: 2ng/mL H: 16ng/mL</p> <p>Δ8-COOH + exo-THC L: 16ng/mL H: 80ng/mL</p> </div> <div> <p>Lot#</p> <p>Δ8-OH : 0645712-1 Δ8-COOH : 0636840-1 exo-THC : 0648522-1</p> </div> </div>	



Sample Summary

Sample Name	Standard 1
Acquisition Date/Time	2022-10-13T15:55:43
Acquisition Method	THC.dam
Batch Name	20221013 In window interferences.dab
Results Table	20221013 in window interferences
Sample Type	Standard
File Name	20221013 In window interferences.wiff
Position	31
Sample Comment	

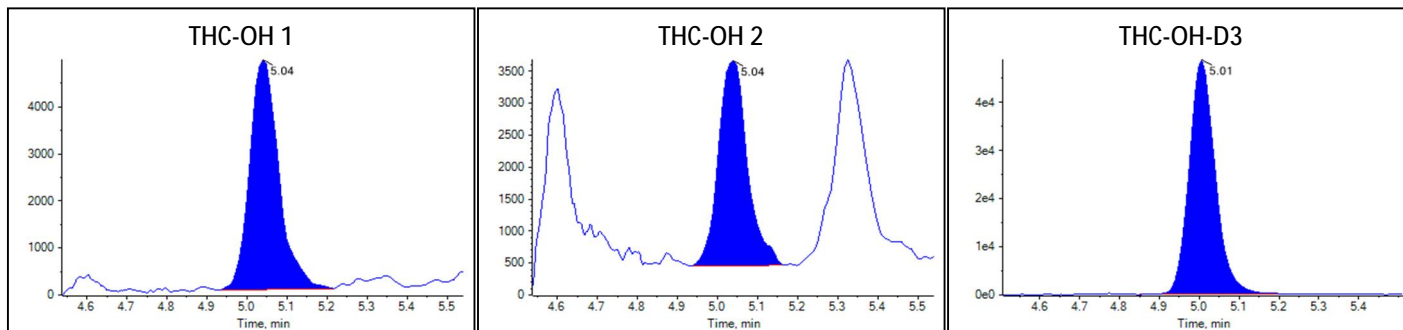
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.1120	1.033		
Δ 9-THC	0.0340	1.073		
Δ 8-THC	0.0275	1.103		
THC-COOH	0.5181	4.995		

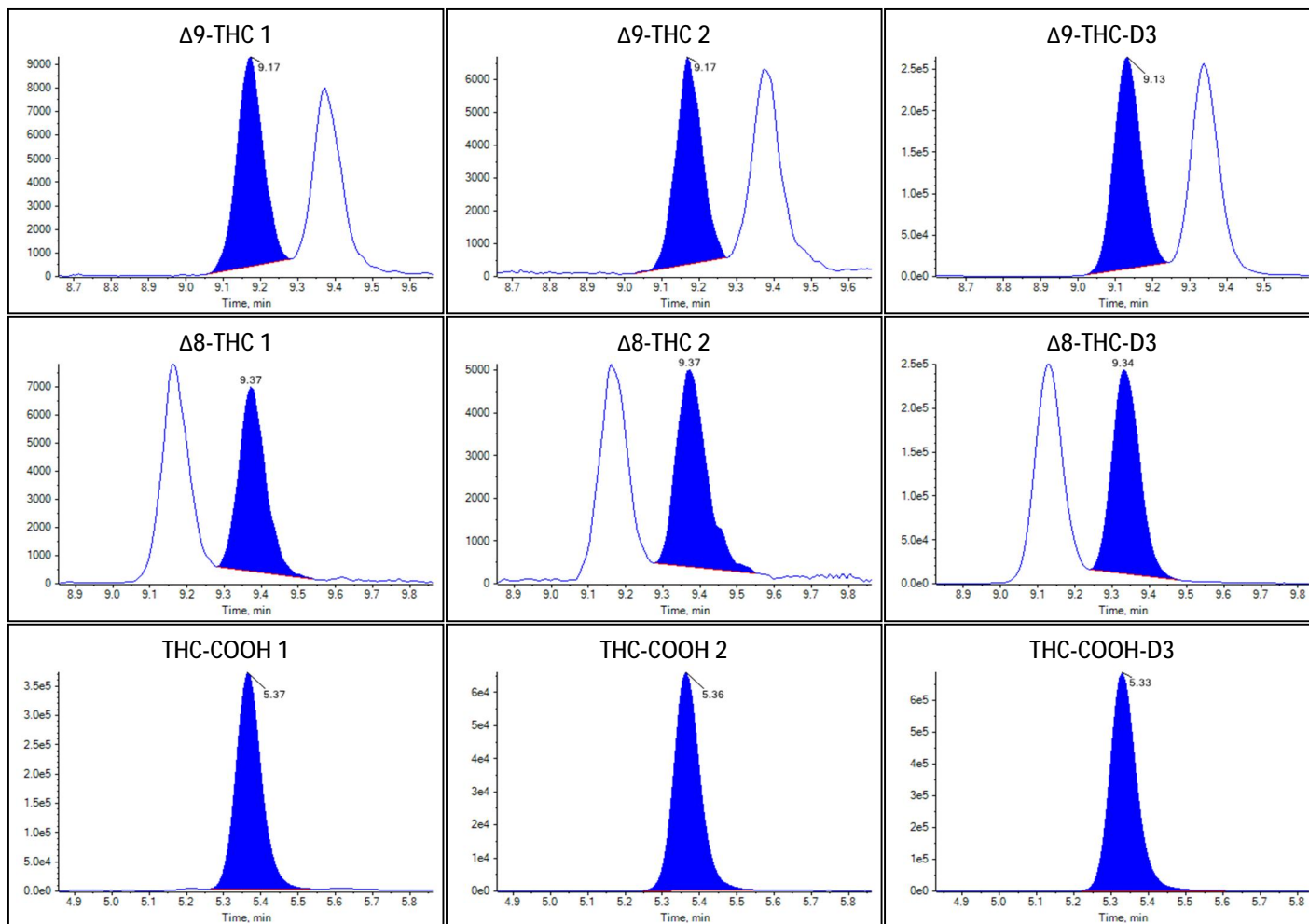
Identification Summary: Standard 1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.651(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.702(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.798(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.183(Pass)

Peak Review: Standard 1



Peak Review: Standard 1





Sample Summary

Sample Name	Standard 2
Acquisition Date/Time	2022-10-13T16:09:49
Acquisition Method	THC.dam
Batch Name	20221013 In window interferences.dab
Results Table	20221013 in window interferences
Sample Type	Standard
File Name	20221013 In window interferences.wiff
Position	32
Sample Comment	

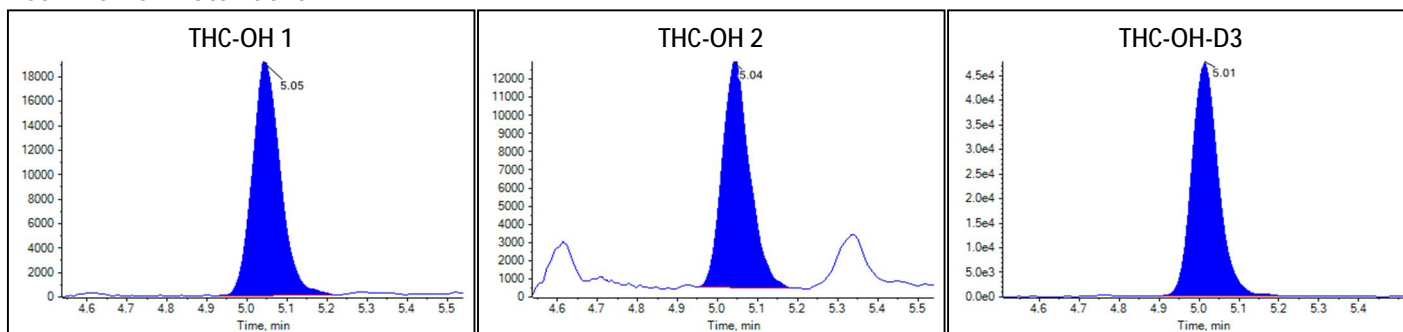
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.4255	3.798		
Δ^9 -THC	0.1490	4.626		
Δ^8 -THC	0.1167	4.475		
THC-COOH	0.9765	9.554		

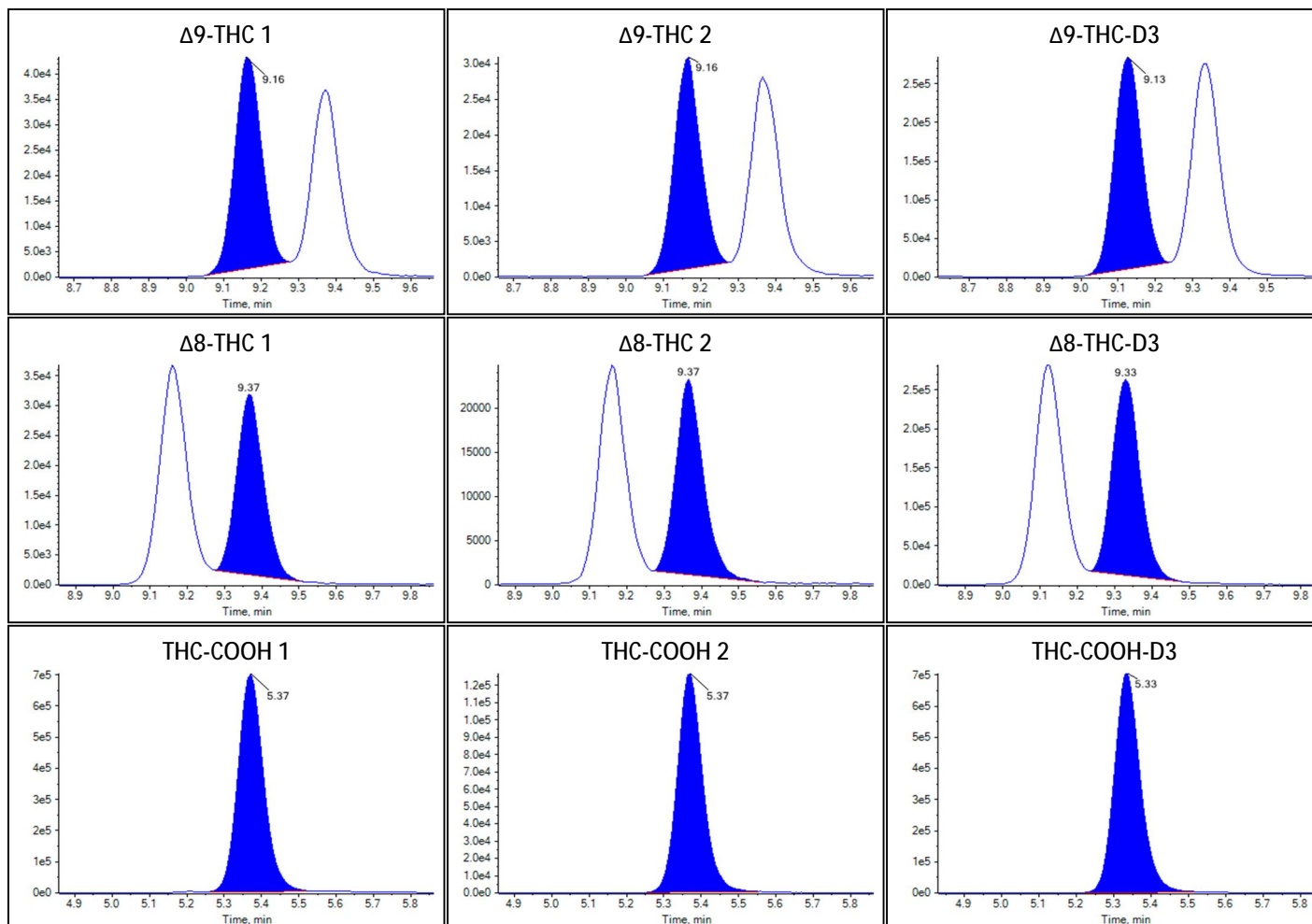
Identification Summary: Standard 2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.637(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.703(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.746(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.179(Pass)

Peak Review: Standard 2



Peak Review: Standard 2





Sample Summary

Sample Name	Standard 3
Acquisition Date/Time	2022-10-13T16:23:55
Acquisition Method	THC.dam
Batch Name	20221013 In window interferences.dab
Results Table	20221013 in window interferences
Sample Type	Standard
File Name	20221013 In window interferences.wiff
Position	33
Sample Comment	

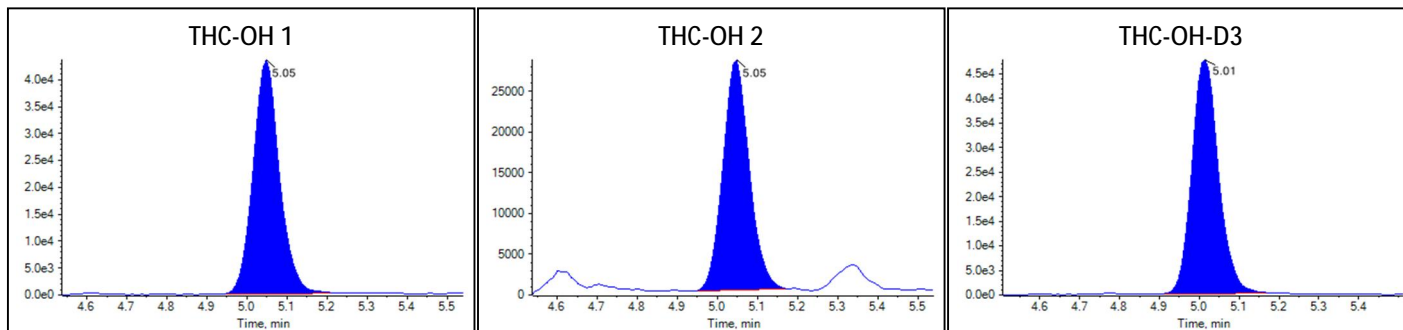
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.8970	7.955		
Δ^9 -THC	0.9405	29.483		
Δ^8 -THC	0.7328	29.000		
THC-COOH	2.6992	26.684		

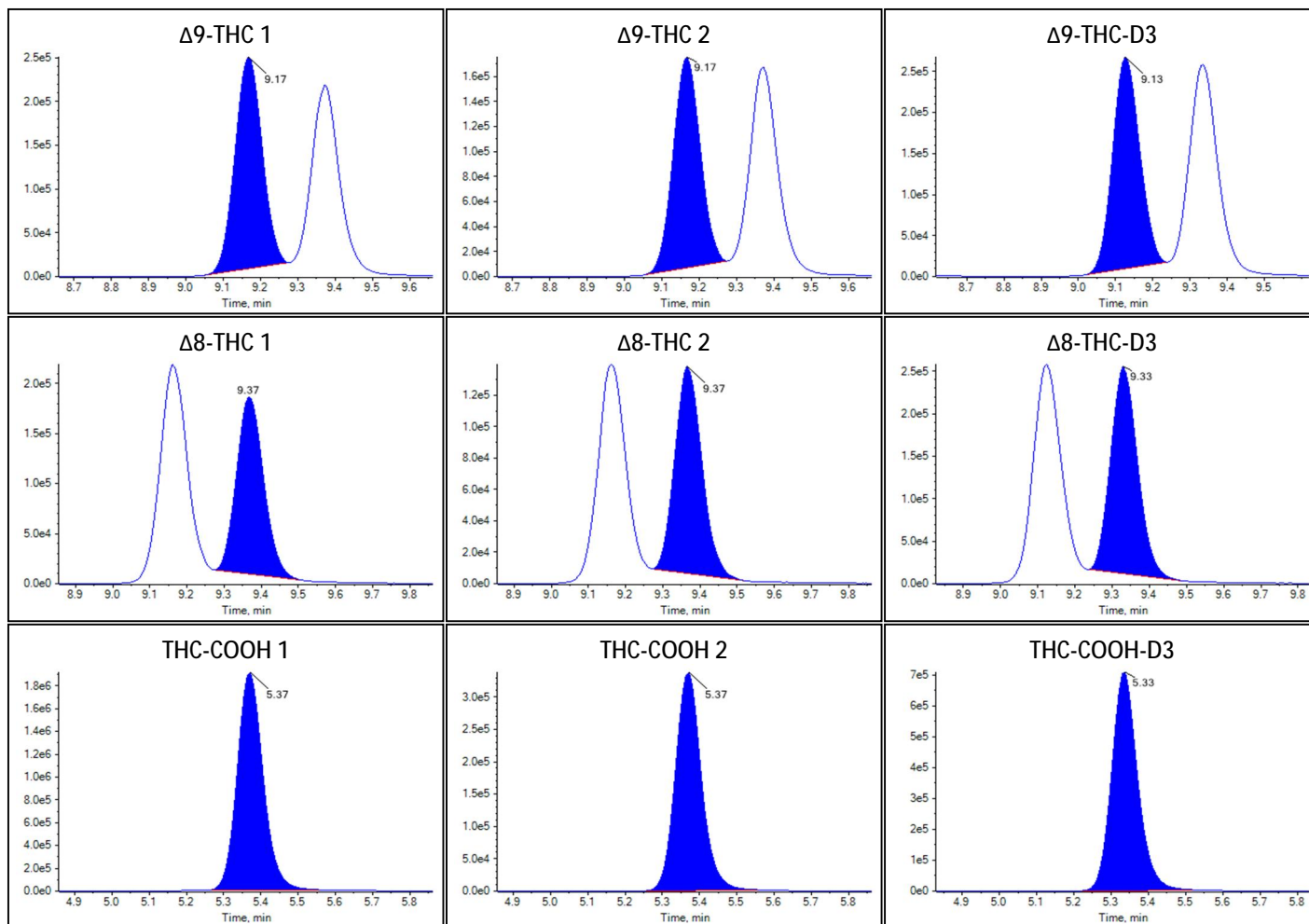
Identification Summary: Standard 3

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.649(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.691(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.740(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.177(Pass)

Peak Review: Standard 3



Peak Review: Standard 3





Sample Summary

Sample Name	Standard 4
Acquisition Date/Time	2022-10-13T16:38:00
Acquisition Method	THC.dam
Batch Name	20221013 In window interferences.dab
Results Table	20221013 in window interferences
Sample Type	Standard
File Name	20221013 In window interferences.wiff
Position	34
Sample Comment	

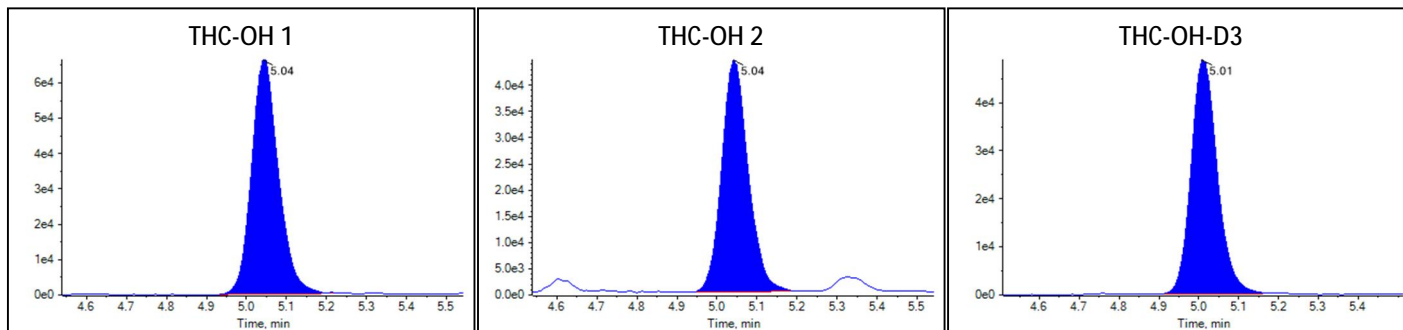
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.3880	12.284		
Δ^9 -THC	1.5888	50.403		
Δ^8 -THC	1.2382	51.091		
THC-COOH	5.0042	49.604		

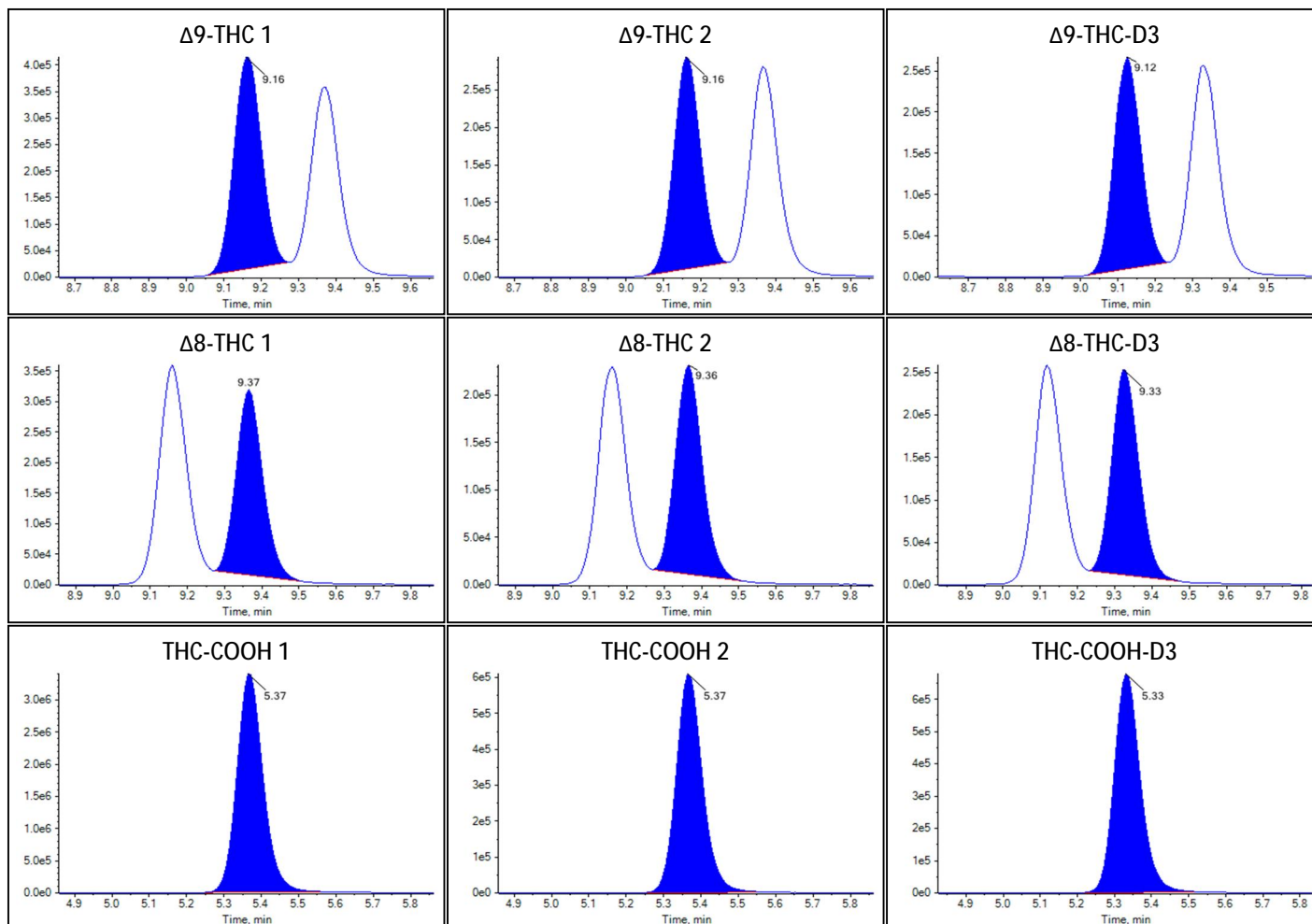
Identification Summary: Standard 4

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.657(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.692(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.731(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.180(Pass)

Peak Review: Standard 4



Peak Review: Standard 4





Sample Summary

Sample Name	Standard 5
Acquisition Date/Time	2022-10-13T16:52:05
Acquisition Method	THC.dam
Batch Name	20221013 In window interferences.dab
Results Table	20221013 in window interferences
Sample Type	Standard
File Name	20221013 In window interferences.wiff
Position	35
Sample Comment	

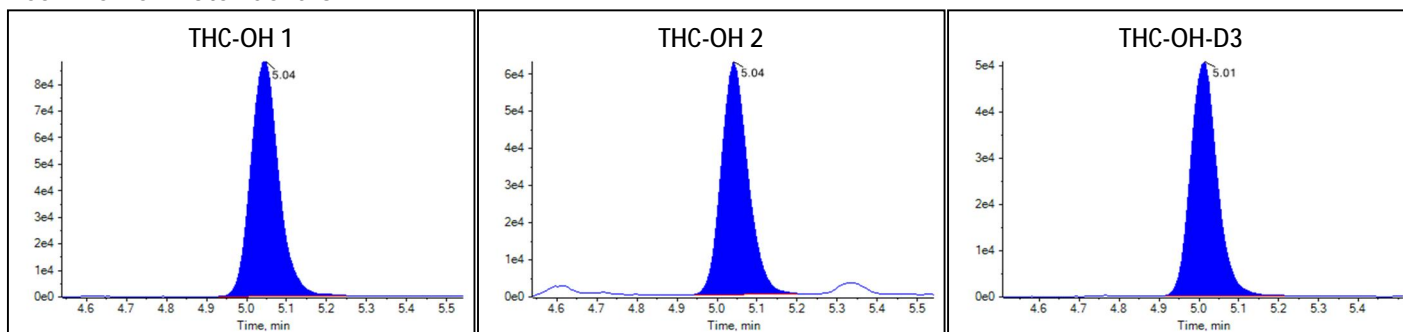
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.8341	16.218		
Δ 9-THC	2.2291	71.601		
Δ 8-THC	1.6841	72.543		
THC-COOH	7.3931	73.359		

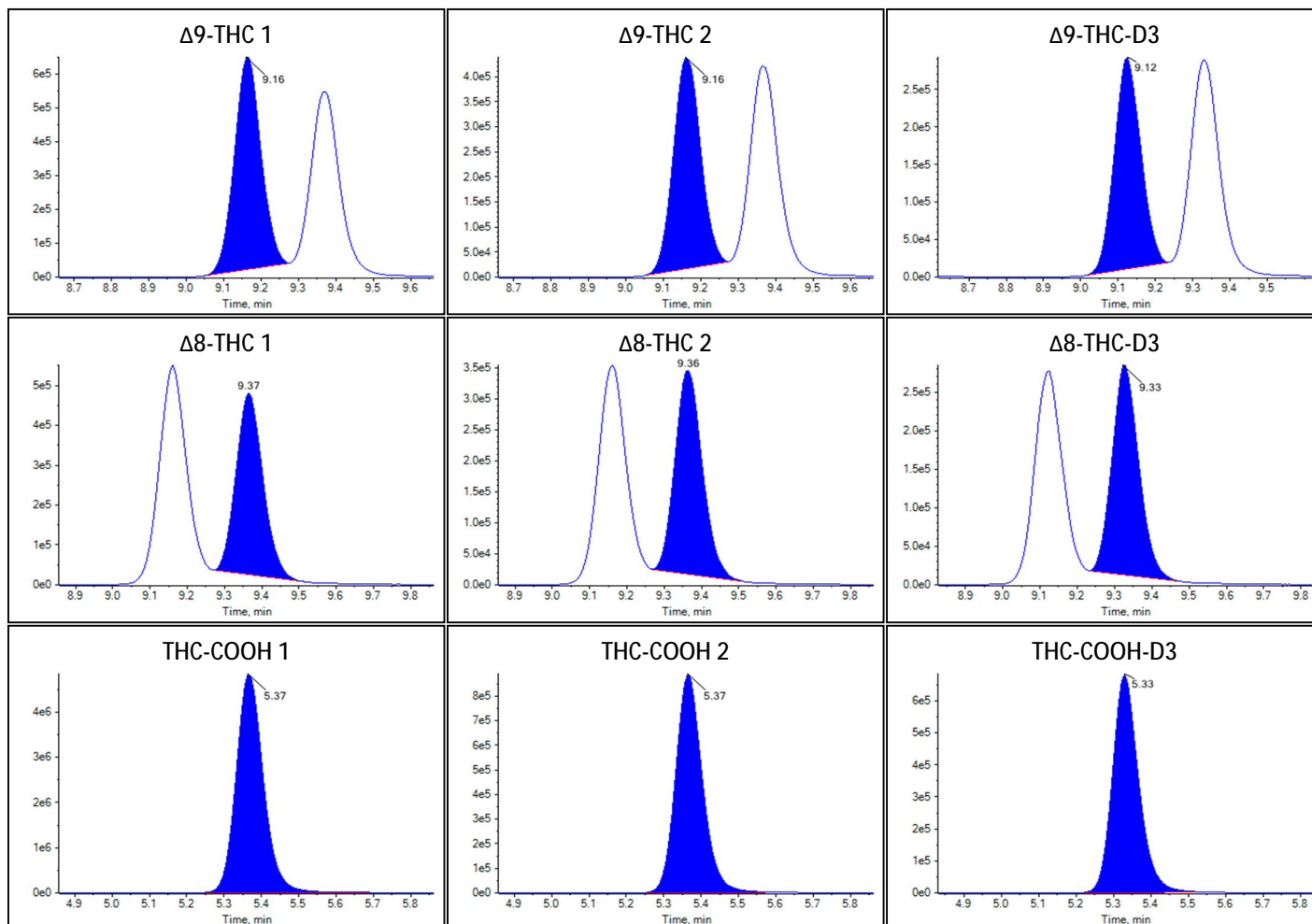
Identification Summary: Standard 5

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.674(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.689(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.736(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.180(Pass)

Peak Review: Standard 5



Peak Review: Standard 5





Sample Summary

Sample Name	Standard 6
Acquisition Date/Time	2022-10-13T17:06:11
Acquisition Method	THC.dam
Batch Name	20221013 In window interferences.dab
Results Table	20221013 in window interferences
Sample Type	Standard
File Name	20221013 In window interferences.wiff
Position	36
Sample Comment	

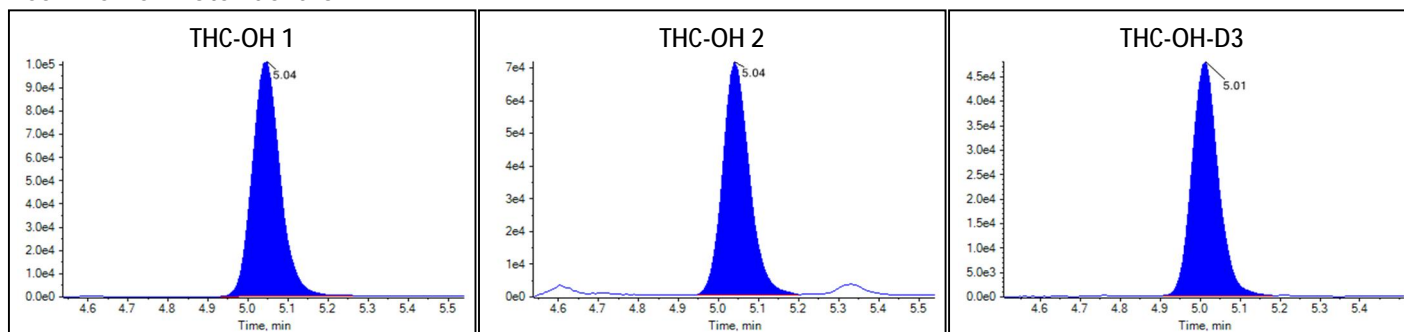
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.2304	19.712		
Δ^9 -THC	3.0266	98.813		
Δ^8 -THC	2.1508	97.708		
THC-COOH	10.1530	100.803		

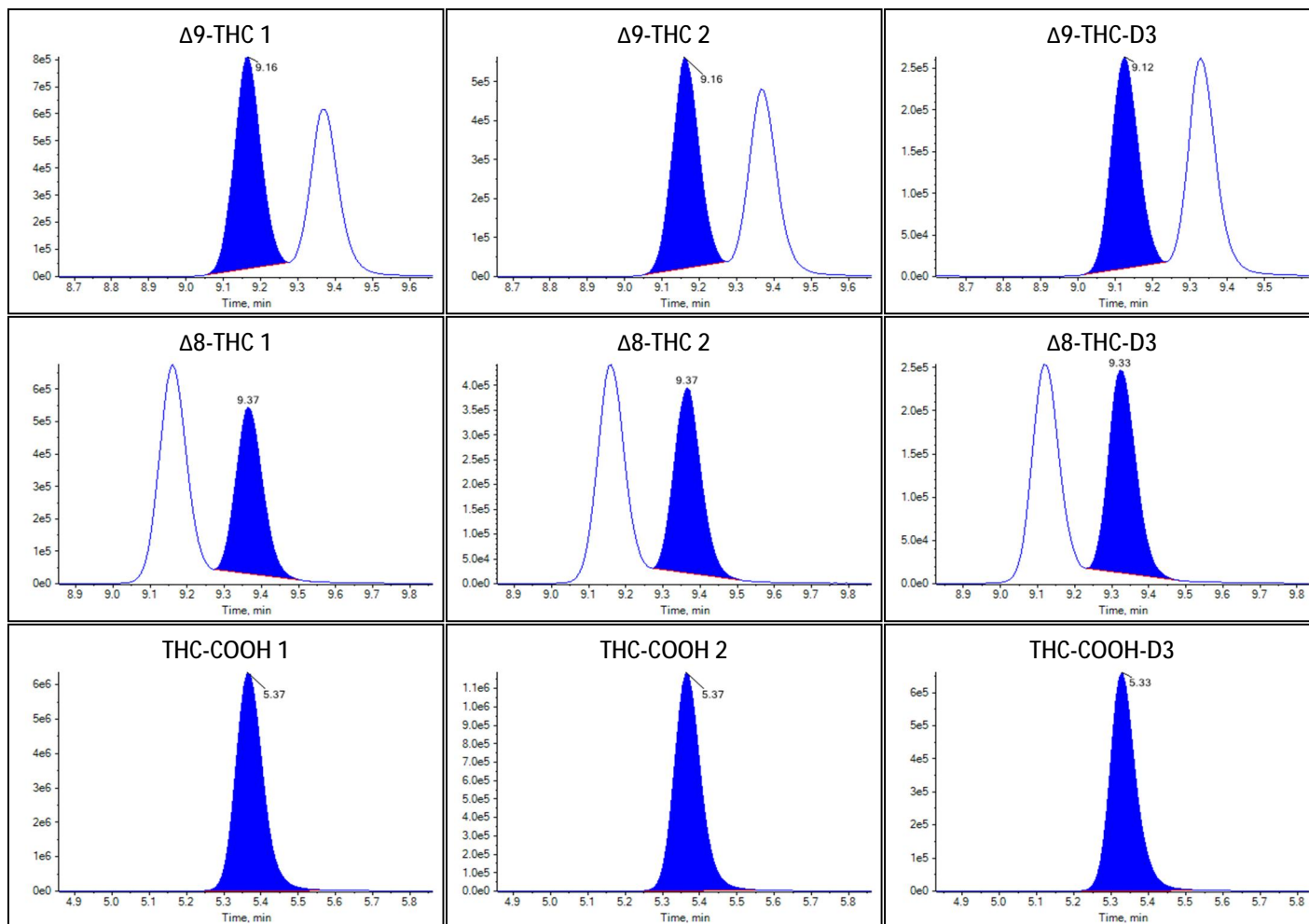
Identification Summary: Standard 6

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.673(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.697(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.731(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.182(Pass)

Peak Review: Standard 6



Peak Review: Standard 6





Sample Summary

Sample Name	Negative
Acquisition Date/Time	2022-10-13T17:20:13
Acquisition Method	THC.dam
Batch Name	20221013 In window interferences.dab
Results Table	20221013 in window interferences
Sample Type	Quality Control
File Name	20221013 In window interferences.wiff
Position	37
Sample Comment	

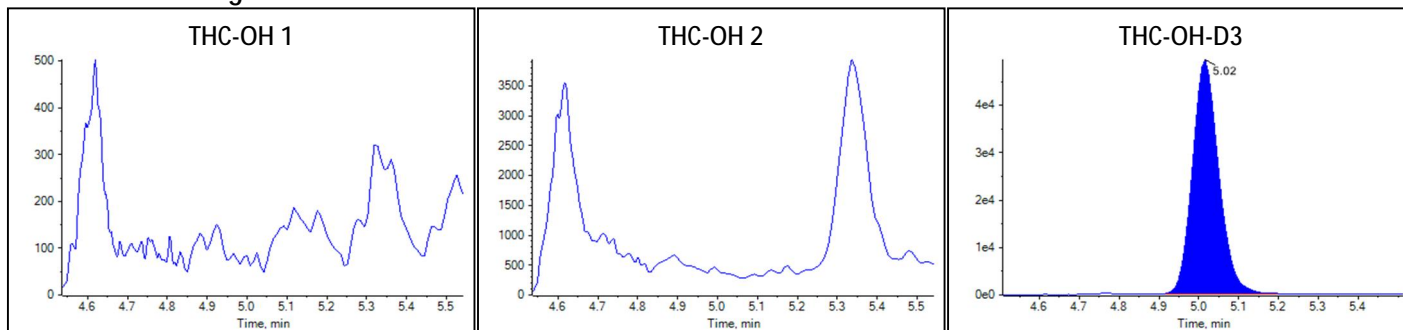
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	N/A	N/A		

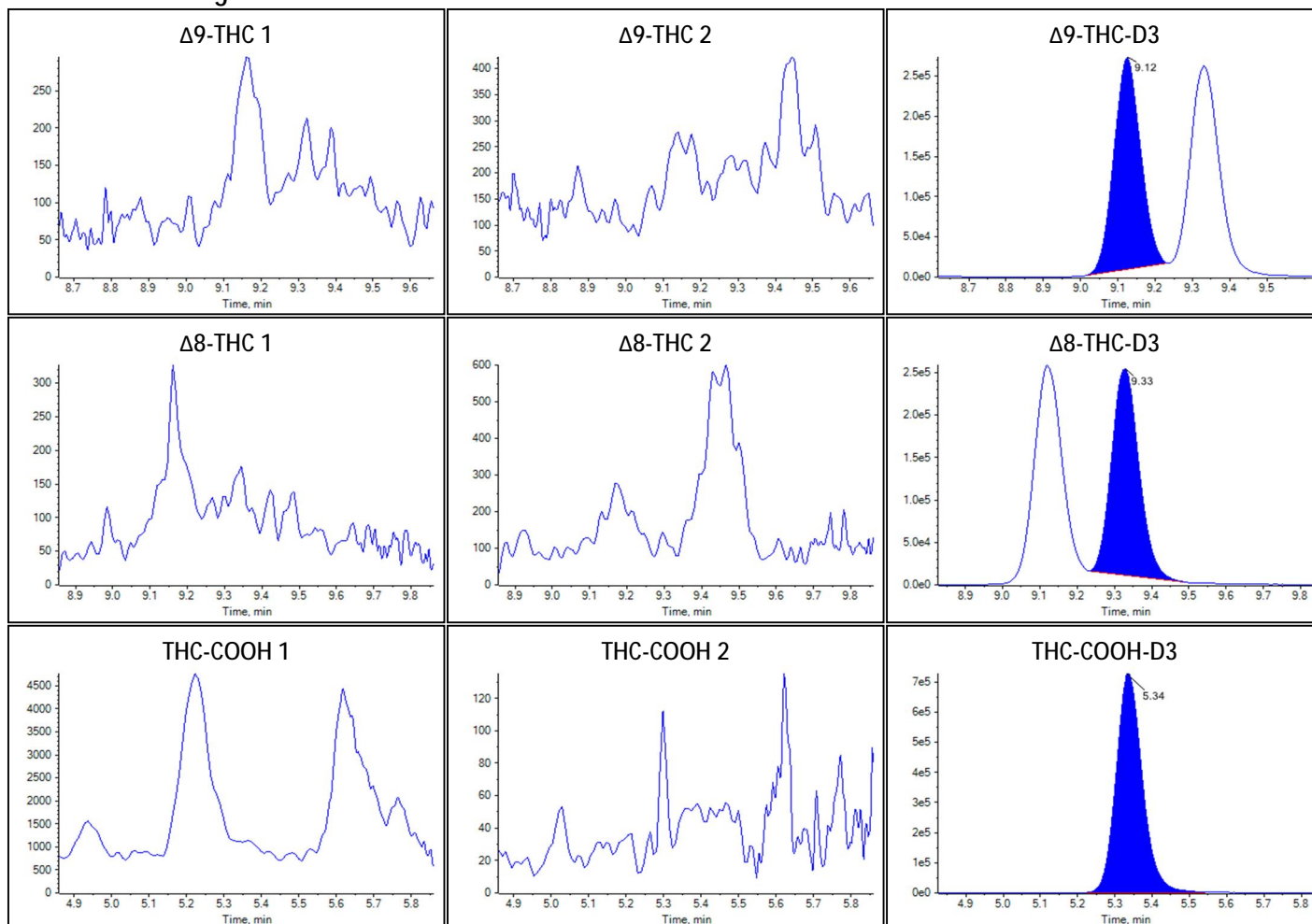
Identification Summary: Negative

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ^9 -THC 1	315.1 / 193.1	N/A	
Δ^9 -THC 2	315.1 / 123.0	N/A	N/A
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	N/A	
THC-COOH 2	343.0 / 191.0	N/A	N/A

Peak Review: Negative



Peak Review: Negative





Sample Summary

Sample Name	Medium
Acquisition Date/Time	2022-10-13T17:34:16
Acquisition Method	THC.dam
Batch Name	20221013 In window interferences.dab
Results Table	20221013 in window interferences
Sample Type	Quality Control
File Name	20221013 In window interferences.wiff
Position	38
Sample Comment	

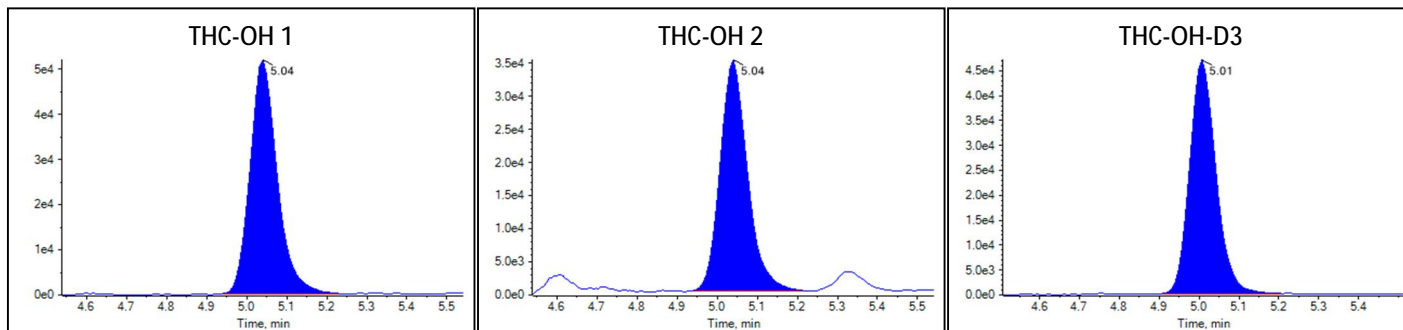
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.1395	10.093		
Δ^9 -THC	1.2881	40.636		
Δ^8 -THC	0.9943	40.175		
THC-COOH	4.1972	41.580		

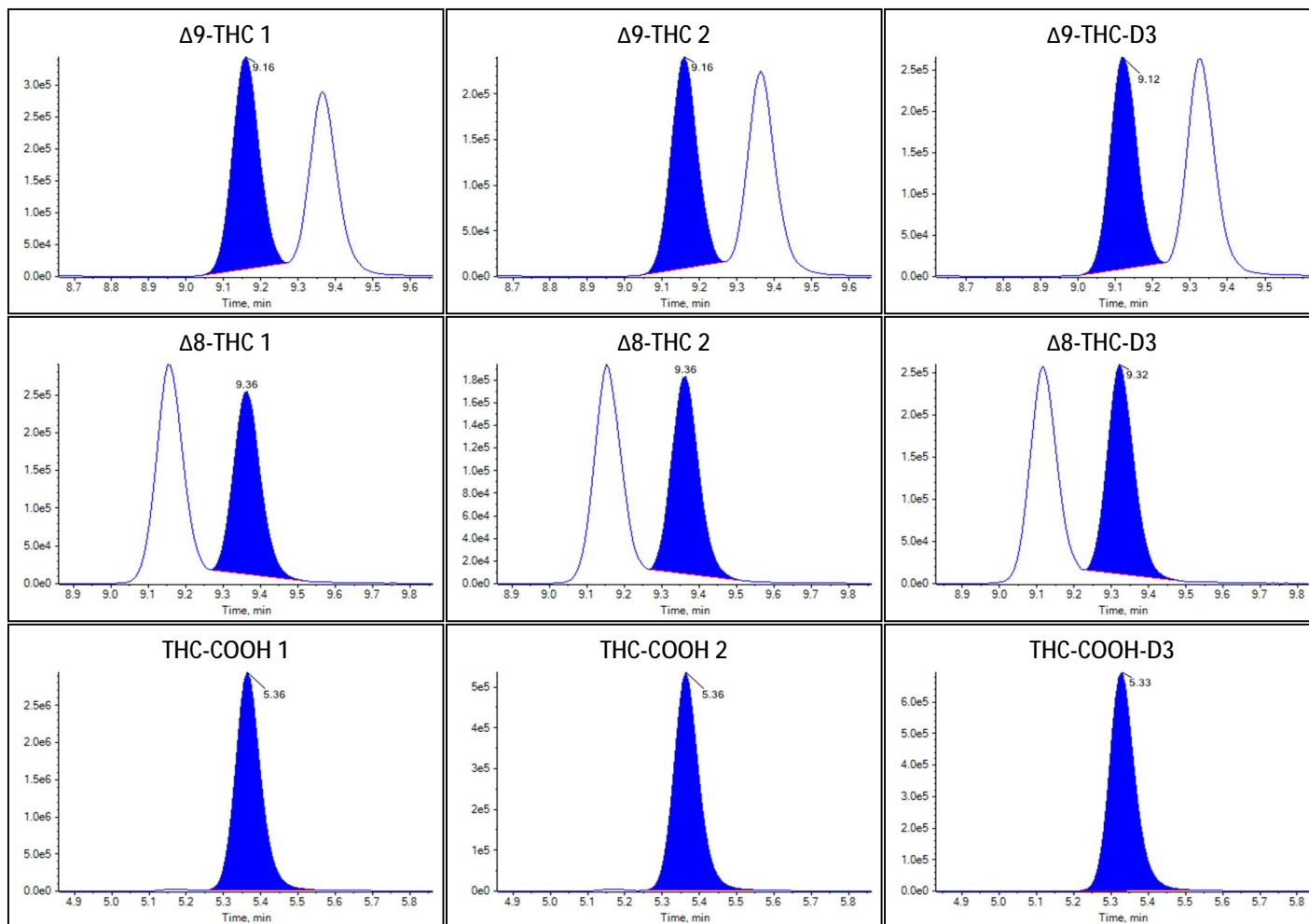
Identification Summary: Medium

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.680(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.685(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.722(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.180(Pass)

Peak Review: Medium



Peak Review: Medium





Sample Summary

Sample Name	5 µL injection
Acquisition Date/Time	2022-10-13T17:48:21
Acquisition Method	THC.dam
Batch Name	20221013 In window interferences.dab
Results Table	20221013 in window interferences
Sample Type	Unknown
File Name	20221013 In window interferences.wiff
Position	31
Sample Comment	

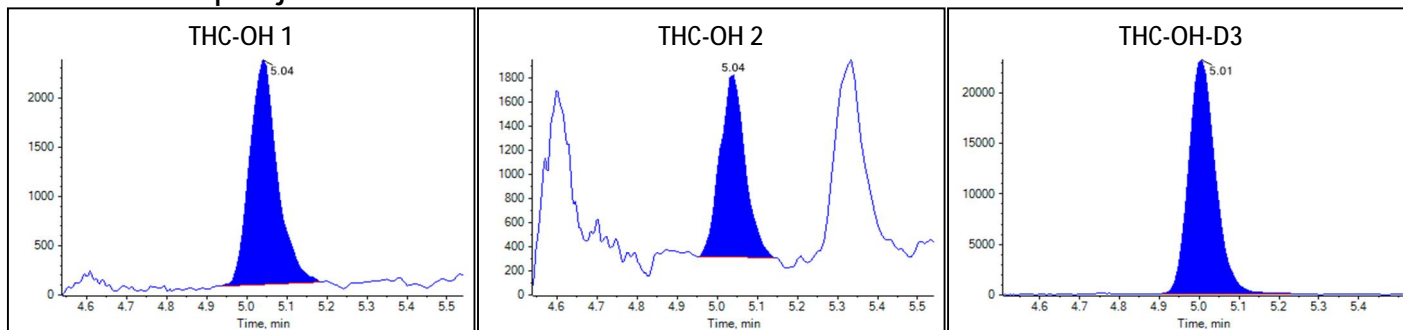
Quantitative Summary

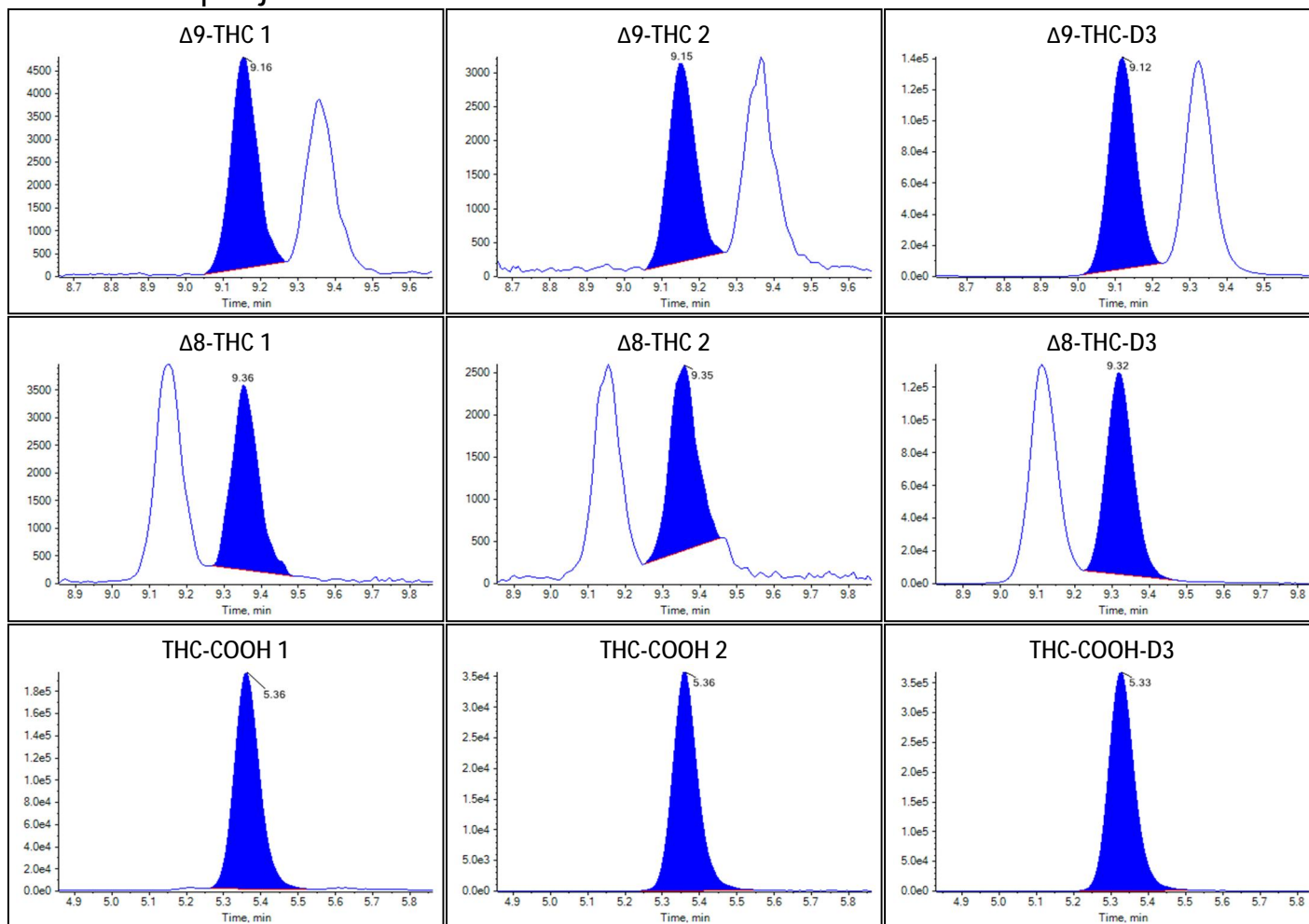
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.1014	0.940		
Δ9-THC	0.0336	1.061		
Δ8-THC	0.0267	1.074		
THC-COOH	0.5179	4.993		

Identification Summary: 5 µL injection

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.599(Pass)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.652(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.676(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.181(Pass)

Peak Review: 5 µL injection



Peak Review: 5 μ L injection



Sample Summary

Sample Name	Low Interference
Acquisition Date/Time	2022-10-13T18:02:23
Acquisition Method	THC.dam
Batch Name	20221013 In window interferences.dab
Results Table	20221013 in window interferences
Sample Type	Unknown
File Name	20221013 In window interferences.wiff
Position	39
Sample Comment	

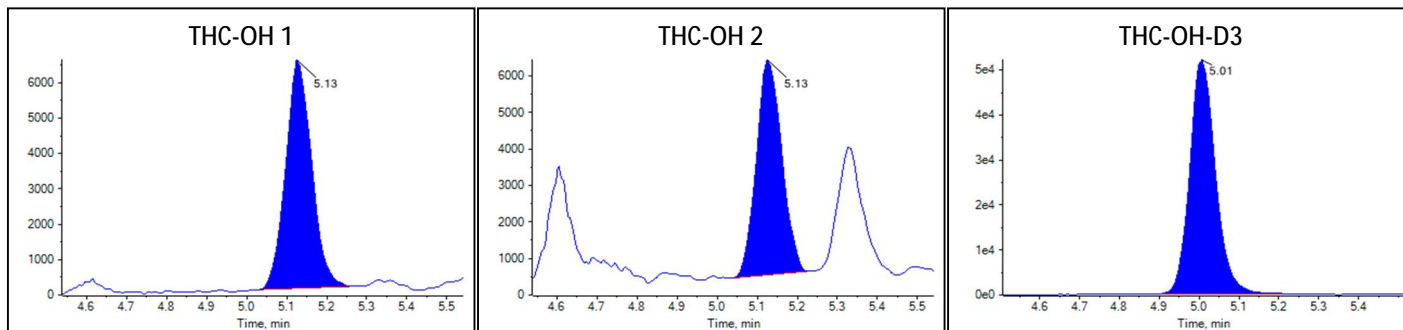
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.1239	1.139		
Δ^9 -THC	0.3820	11.869		
Δ^8 -THC	0.3496	13.480		
THC-COOH	1.0105	9.892		

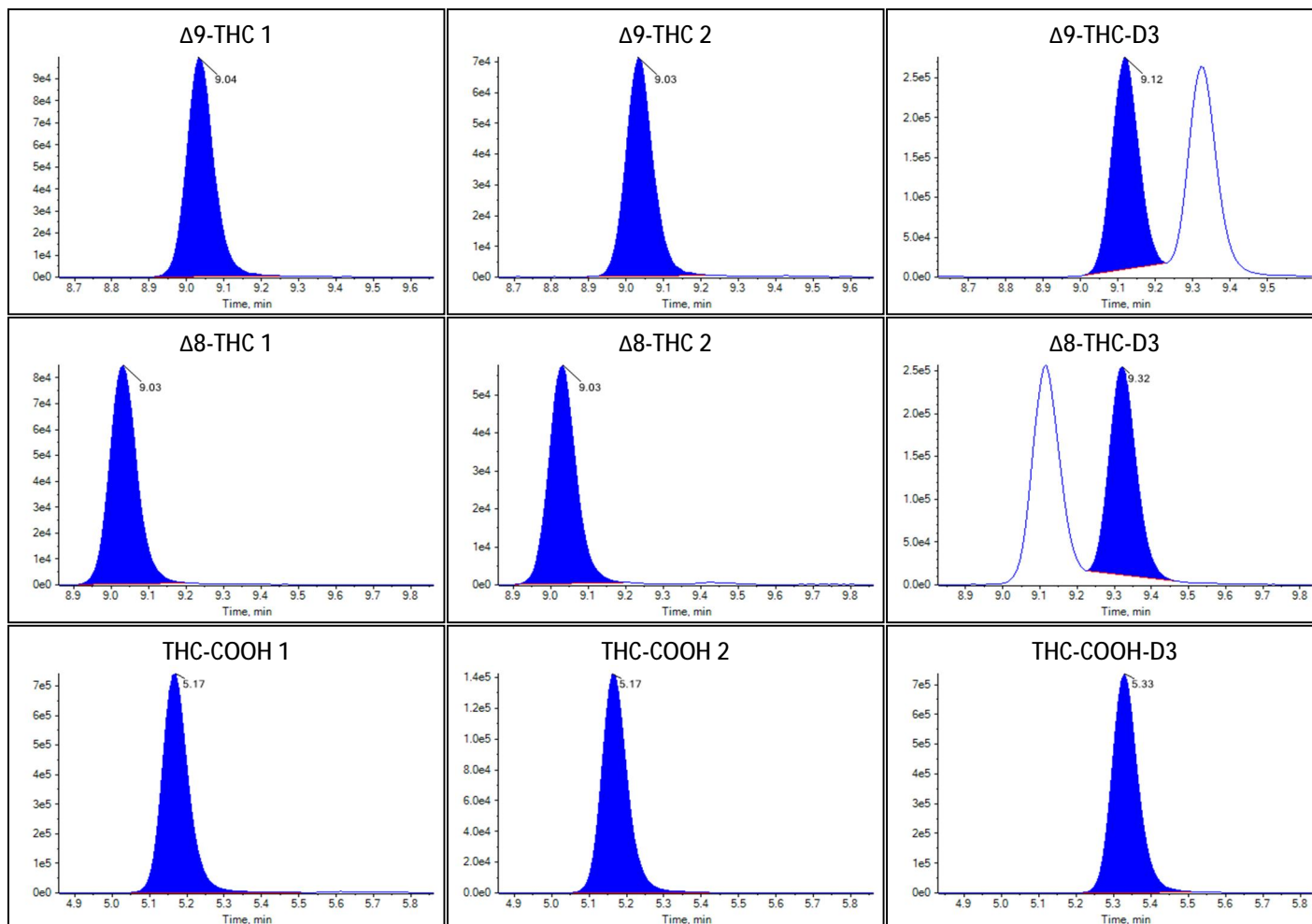
Identification Summary: Low Interference

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.020(Pass)	
THC-OH 2	331.1 / 105.1	1.020(Pass)	0.894(Fail)
Δ^9 -THC 1	315.1 / 193.1	0.990(Pass)	
Δ^9 -THC 2	315.1 / 123.0	0.990(Pass)	0.712(Pass)
Δ^8 -THC 1	315.1 / 193.1	0.970(Fail)	
Δ^8 -THC 2	315.1 / 123.1	0.970(Fail)	0.675(Pass)
THC-COOH 1	343.0 / 299.1	0.970(Fail)	
THC-COOH 2	343.0 / 191.0	0.970(Fail)	0.188(Pass)

Peak Review: Low Interference



Peak Review: Low Interference





Sample Summary

Sample Name	High Interference
Acquisition Date/Time	2022-10-13T18:16:29
Acquisition Method	THC.dam
Batch Name	20221013 In window interferences.dab
Results Table	20221013 in window interferences
Sample Type	Unknown
File Name	20221013 In window interferences.wiff
Position	40
Sample Comment	

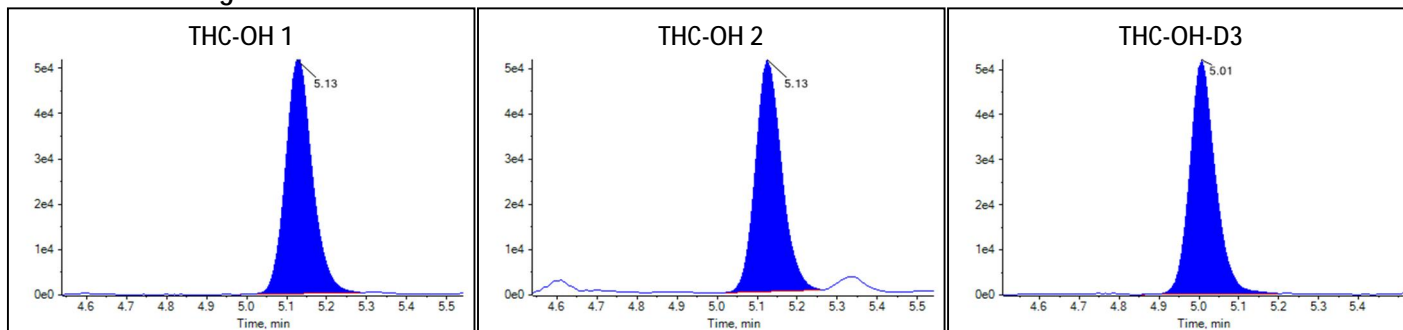
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.0435	9.247		
Δ^9 -THC	2.8057	91.179		
Δ^8 -THC	2.6066	126.252		
THC-COOH	7.0151	69.601		

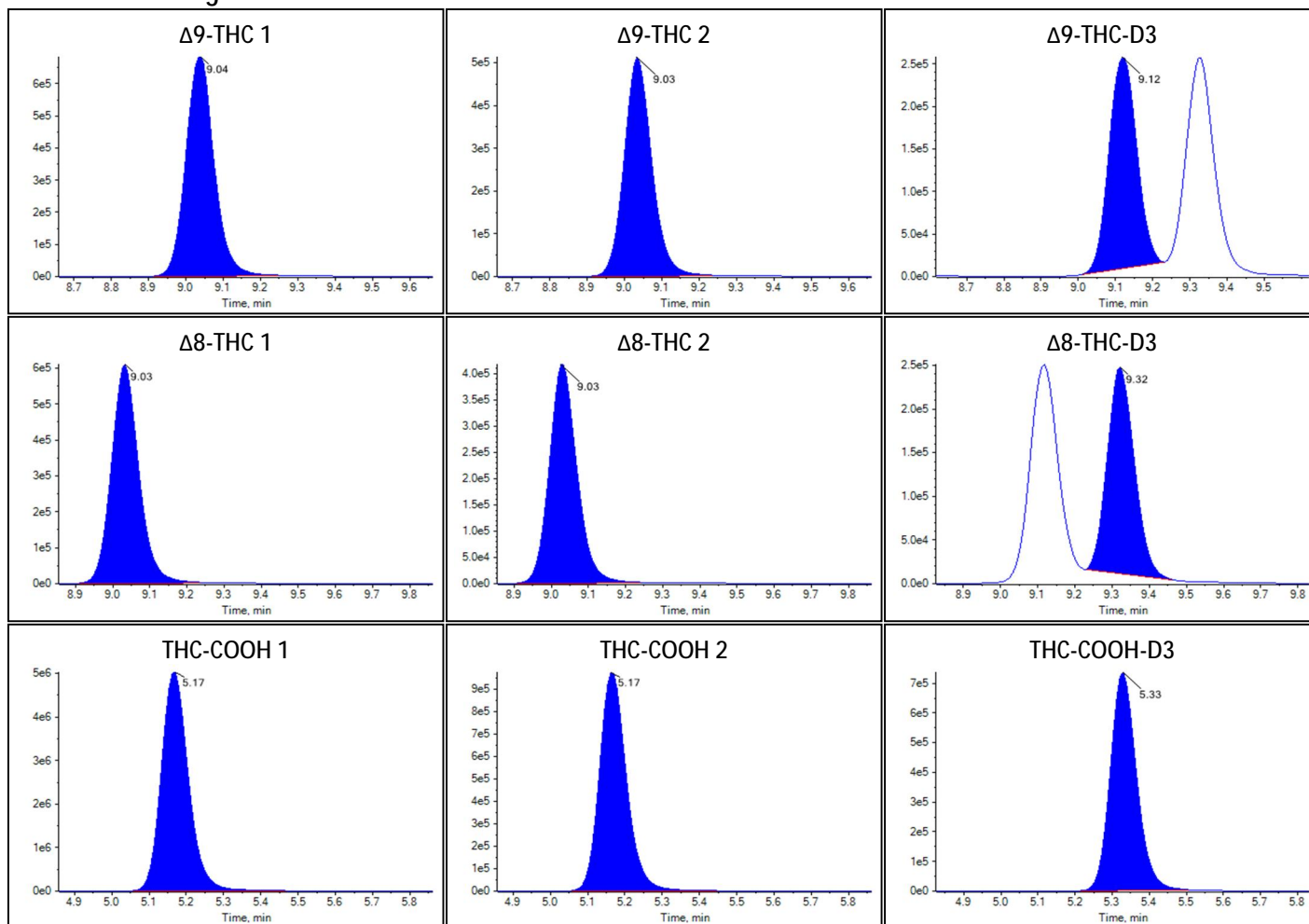
Identification Summary: High Interference

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.020(Pass)	
THC-OH 2	331.1 / 105.1	1.020(Pass)	0.968(Fail)
Δ^9 -THC 1	315.1 / 193.1	0.990(Pass)	
Δ^9 -THC 2	315.1 / 123.0	0.990(Pass)	0.730(Pass)
Δ^8 -THC 1	315.1 / 193.1	0.970(Fail)	
Δ^8 -THC 2	315.1 / 123.1	0.970(Fail)	0.690(Pass)
THC-COOH 1	343.0 / 299.1	0.970(Fail)	
THC-COOH 2	343.0 / 191.0	0.970(Fail)	0.192(Pass)

Peak Review: High Interference



Peak Review: High Interference





Sample Summary

Sample Name	Standard 1 Low
Acquisition Date/Time	2022-10-13T18:30:34
Acquisition Method	THC.dam
Batch Name	20221013 In window interferences.dab
Results Table	20221013 in window interferences
Sample Type	Unknown
File Name	20221013 In window interferences.wiff
Position	41
Sample Comment	

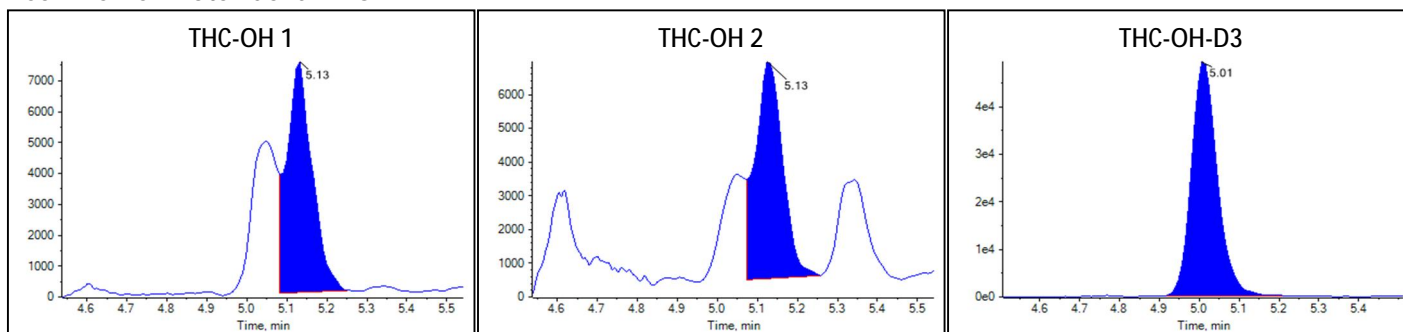
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.1476	1.347		
Δ 9-THC	N/A	N/A		
Δ 8-THC	0.0242	0.979		
THC-COOH	0.4707	4.524		

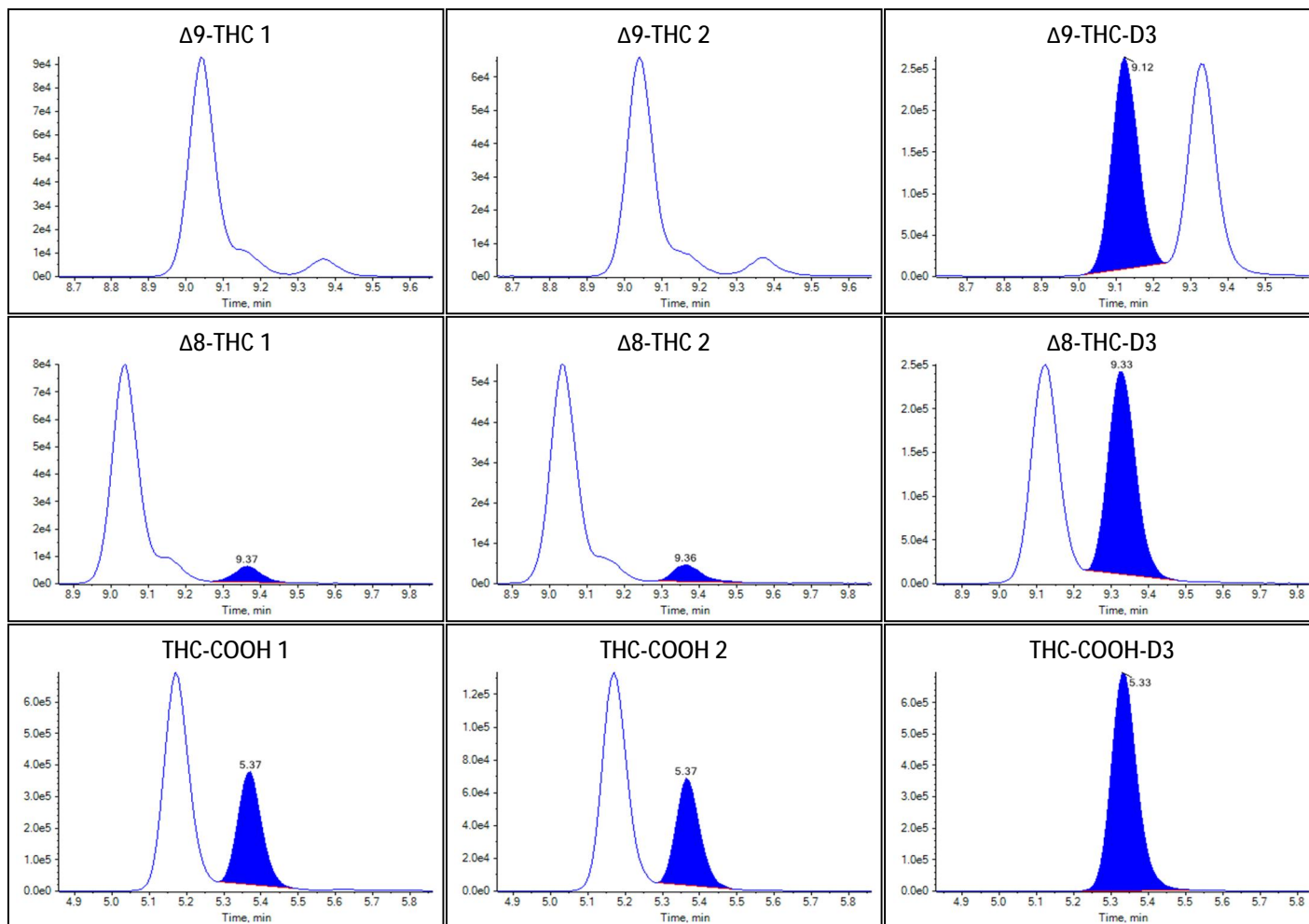
Identification Summary: Standard 1 Low

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.020(Pass)	
THC-OH 2	331.1 / 105.1	1.020(Pass)	0.928(Fail)
Δ 9-THC 1	315.1 / 193.1	N/A	
Δ 9-THC 2	315.1 / 123.0	N/A	N/A
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.778(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.181(Pass)

Peak Review: Standard 1 Low



Peak Review: Standard 1 Low





Sample Summary

Sample Name	Standard 1 High
Acquisition Date/Time	2022-10-13T18:44:40
Acquisition Method	THC.dam
Batch Name	20221013 In window interferences.dab
Results Table	20221013 in window interferences
Sample Type	Unknown
File Name	20221013 In window interferences.wiff
Position	42
Sample Comment	

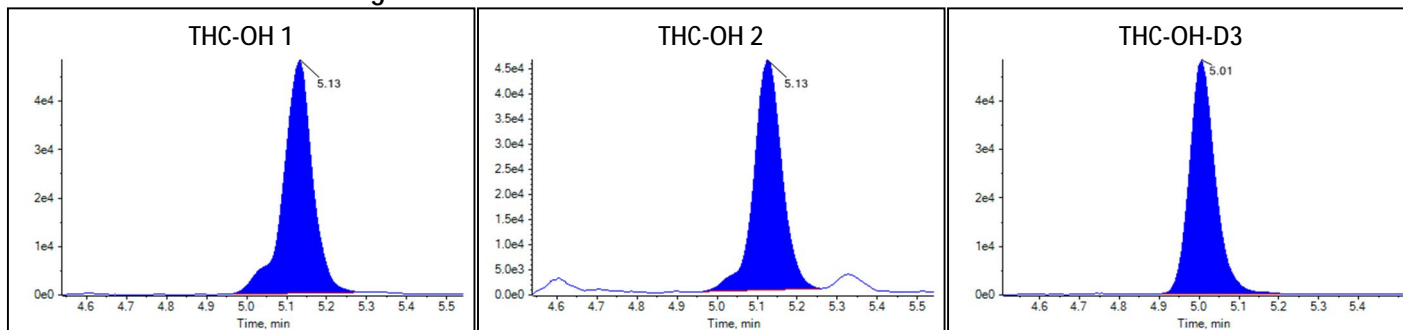
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.1366	10.067		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	0.5494	5.307		

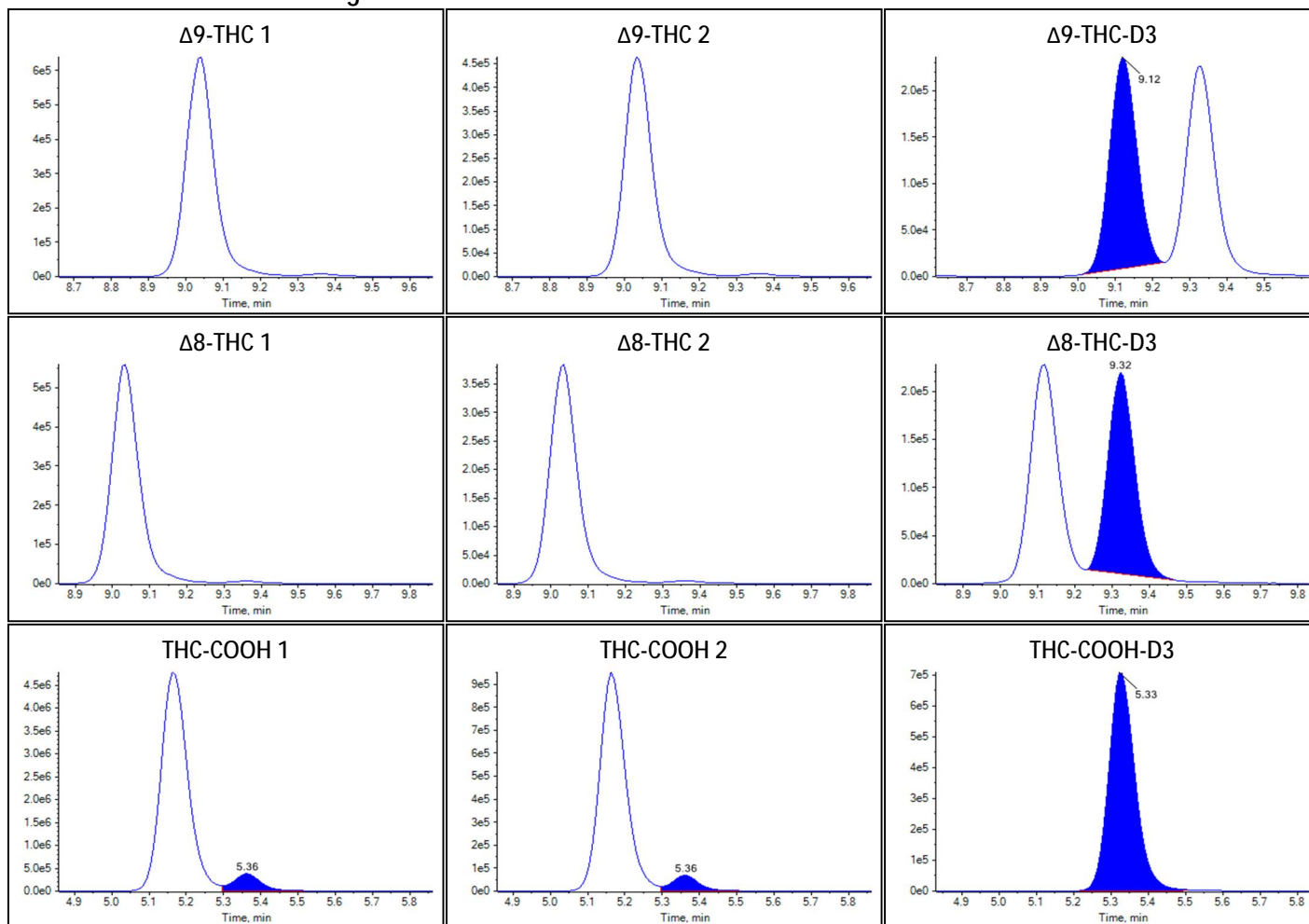
Identification Summary: Standard 1 High

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.020(Pass)	
THC-OH 2	331.1 / 105.1	1.020(Pass)	0.918(Fail)
Δ^9 -THC 1	315.1 / 193.1	N/A	
Δ^9 -THC 2	315.1 / 123.0	N/A	N/A
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.179(Pass)

Peak Review: Standard 1 High



Peak Review: Standard 1 High





Sample Summary

Sample Name	Standard 2 Low
Acquisition Date/Time	2022-10-13T18:58:45
Acquisition Method	THC.dam
Batch Name	20221013 In window interferences.dab
Results Table	20221013 in window interferences
Sample Type	Unknown
File Name	20221013 In window interferences.wiff
Position	43
Sample Comment	

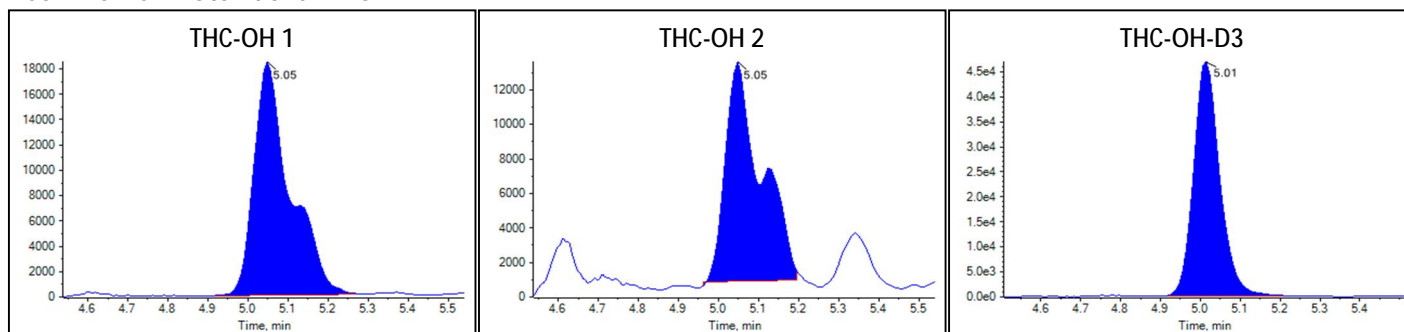
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.5475	4.873		
Δ^9 -THC	0.1594	4.947		
Δ^8 -THC	0.1163	4.460		
THC-COOH	0.9178	8.969		

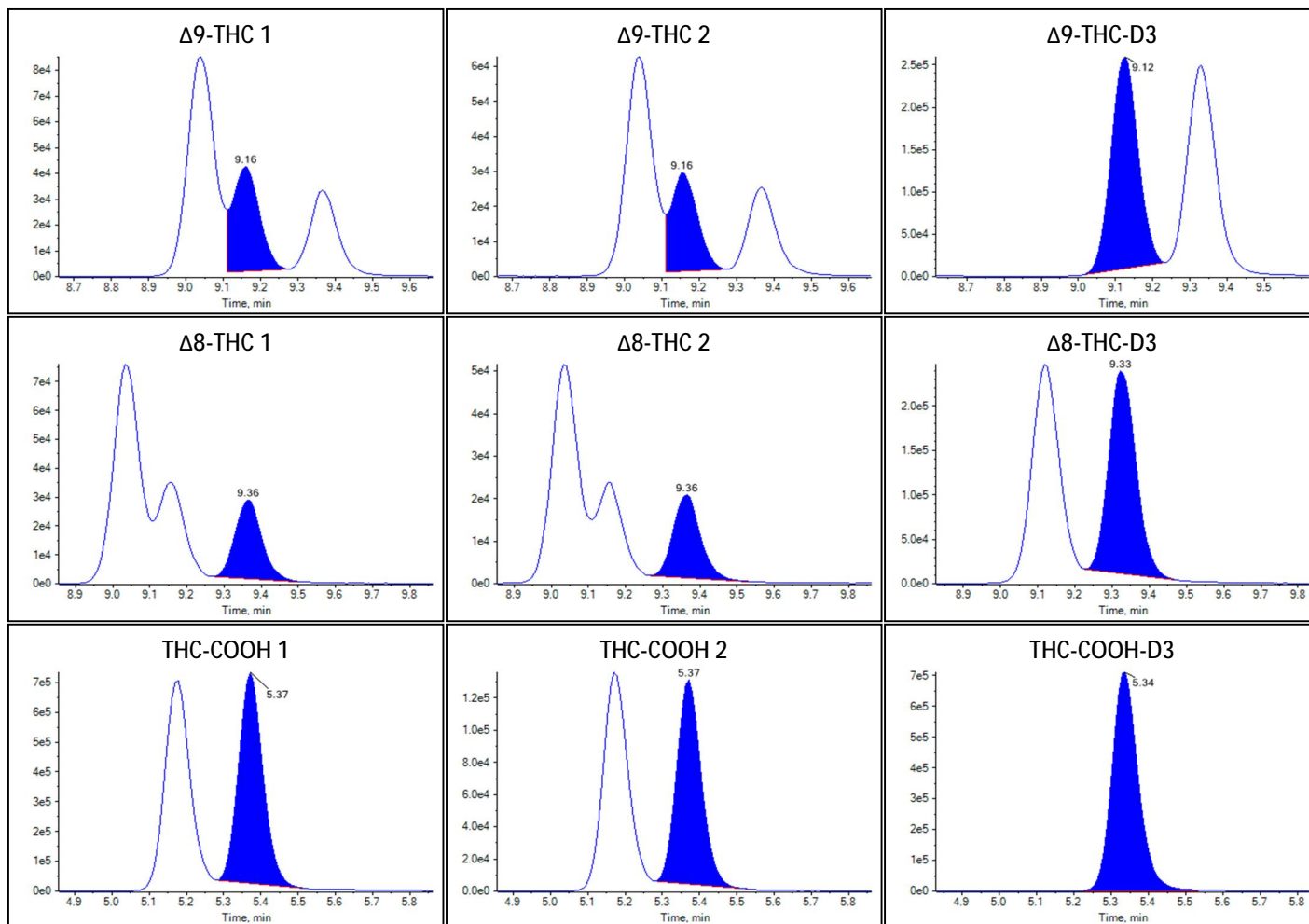
Identification Summary: Standard 2 Low

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.682(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.681(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.730(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.181(Pass)

Peak Review: Standard 2 Low



Peak Review: Standard 2 Low





Sample Summary

Sample Name	Standard 2 High
Acquisition Date/Time	2022-10-13T19:12:50
Acquisition Method	THC.dam
Batch Name	20221013 In window interferences.dab
Results Table	20221013 in window interferences
Sample Type	Unknown
File Name	20221013 In window interferences.wiff
Position	44
Sample Comment	

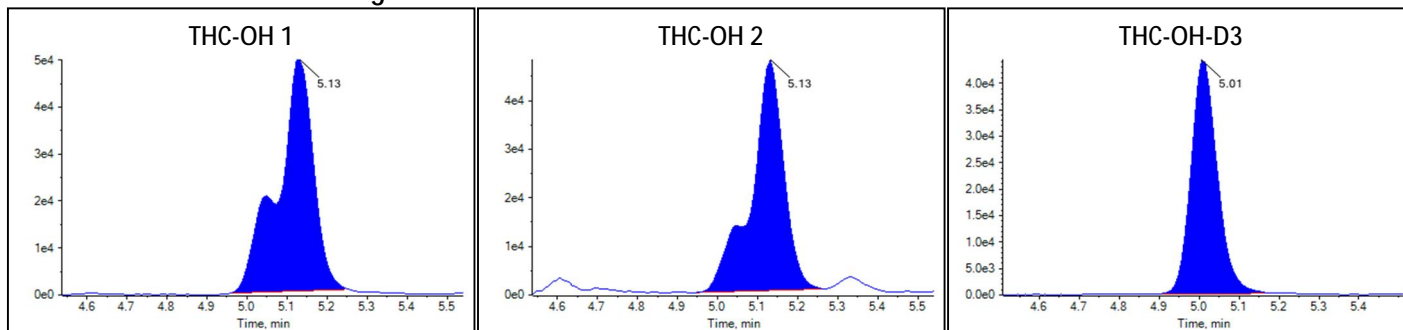
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.5471	13.687		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	0.1328	5.088		
THC-COOH	0.8380	8.176		

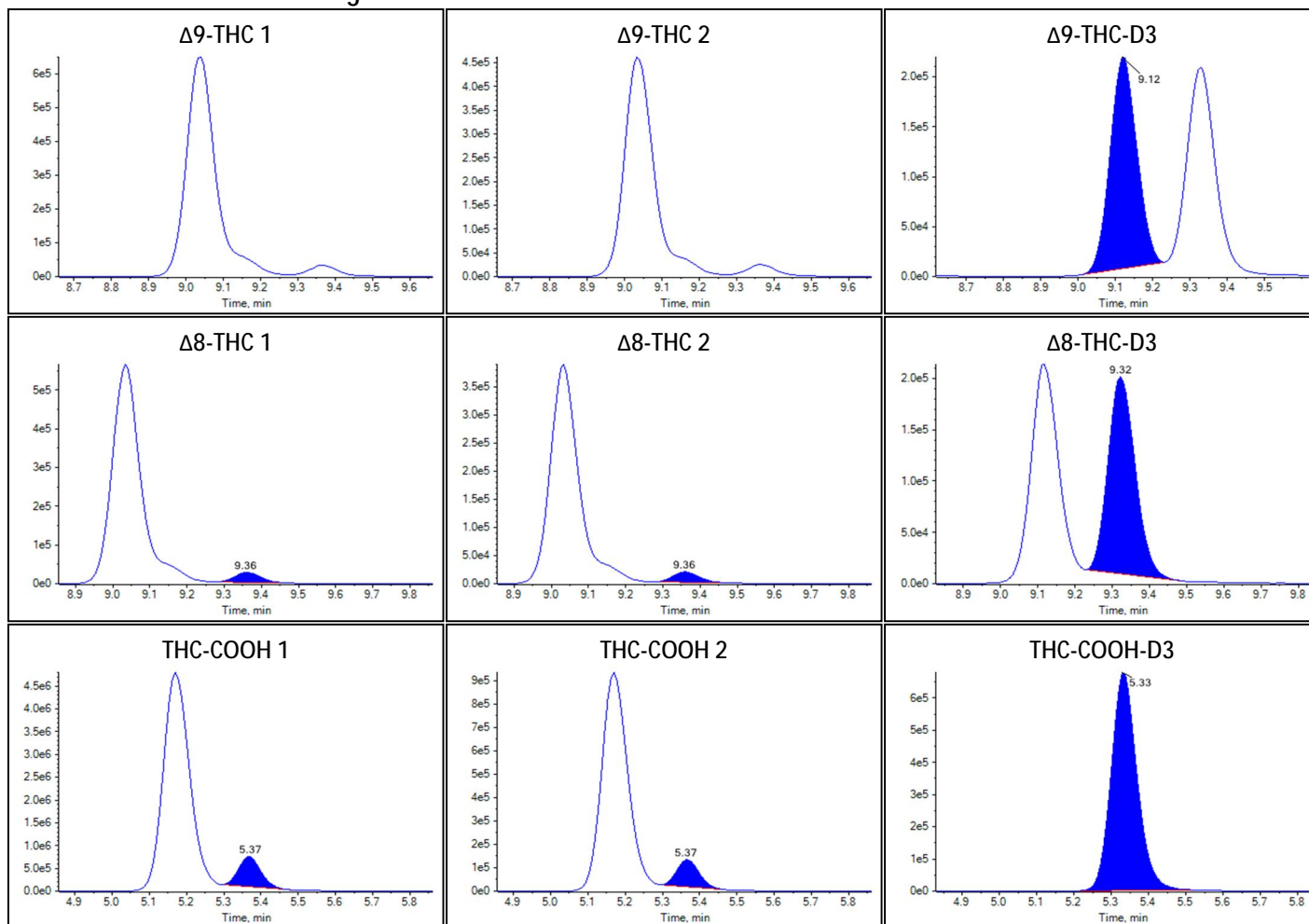
Identification Summary: Standard 2 High

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.020(Pass)	
THC-OH 2	331.1 / 105.1	1.020(Pass)	0.866(Fail)
Δ^9 -THC 1	315.1 / 193.1	N/A	
Δ^9 -THC 2	315.1 / 123.0	N/A	N/A
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.724(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.177(Pass)

Peak Review: Standard 2 High



Peak Review: Standard 2 High





Sample Summary

Sample Name	Standard 3 Low
Acquisition Date/Time	2022-10-13T19:26:56
Acquisition Method	THC.dam
Batch Name	20221013 In window interferences.dab
Results Table	20221013 in window interferences
Sample Type	Unknown
File Name	20221013 In window interferences.wiff
Position	45
Sample Comment	

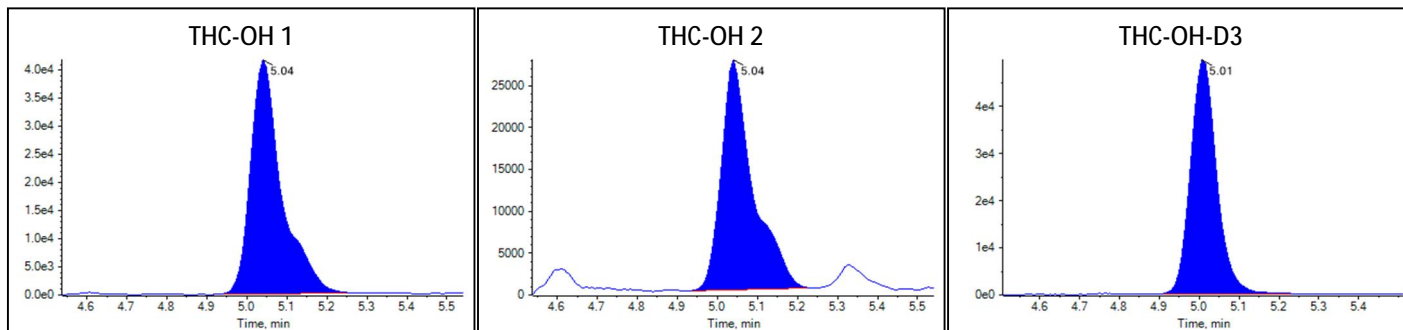
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.9895	8.771		
Δ^9 -THC	0.7312	22.840		
Δ^8 -THC	0.7117	28.122		
THC-COOH	2.5486	25.186		

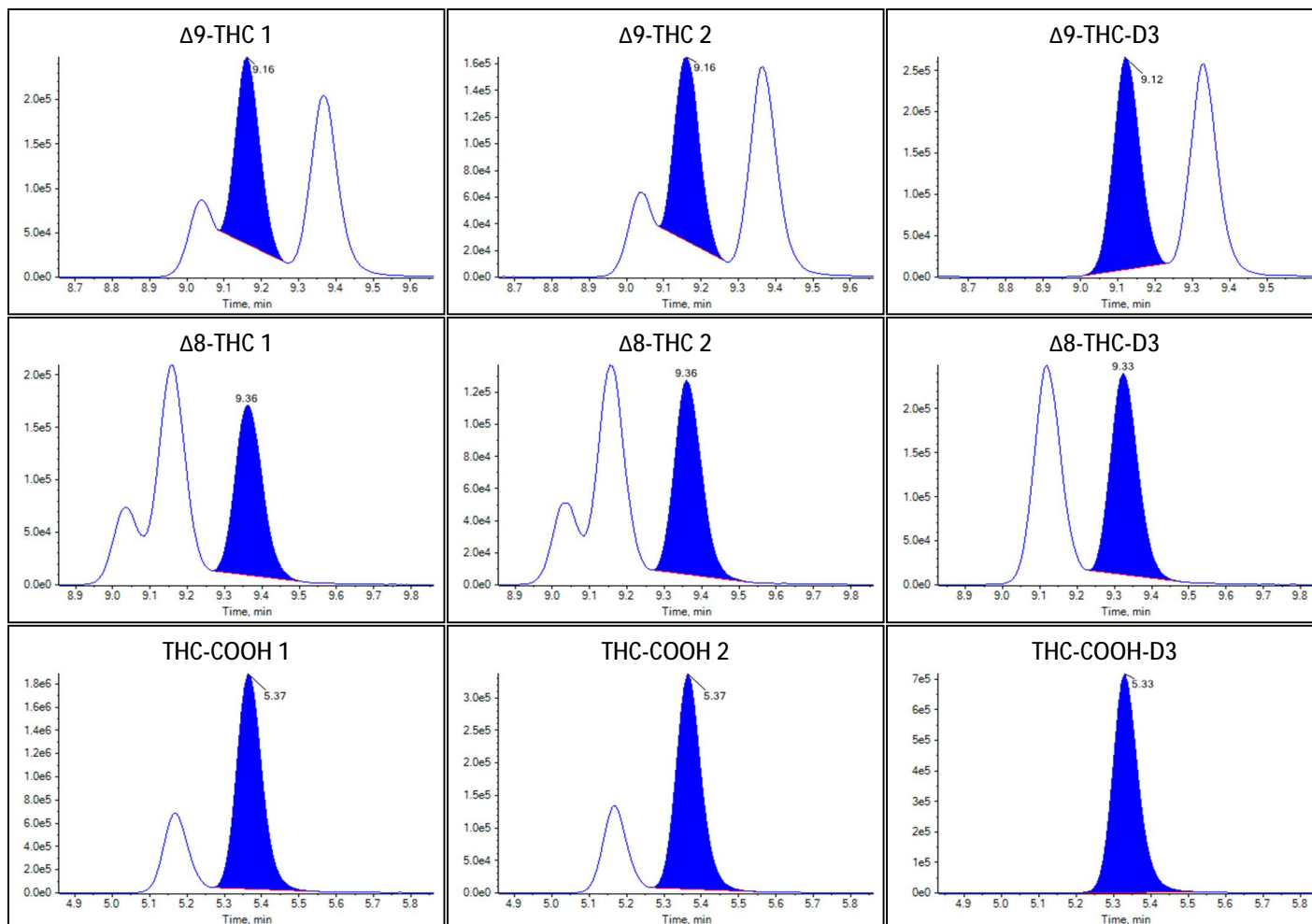
Identification Summary: Standard 3 Low

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.672(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.678(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.737(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.177(Pass)

Peak Review: Standard 3 Low



Peak Review: Standard 3 Low





Sample Summary

Sample Name	Standard 3 High
Acquisition Date/Time	2022-10-13T19:41:01
Acquisition Method	THC.dam
Batch Name	20221013 In window interferences.dab
Results Table	20221013 in window interferences
Sample Type	Unknown
File Name	20221013 In window interferences.wiff
Position	46
Sample Comment	

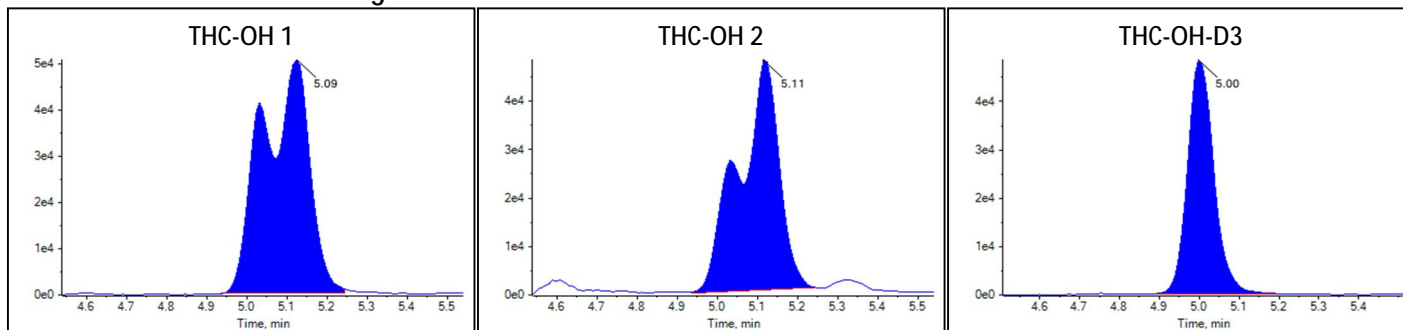
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.8700	16.534		
Δ^9 -THC	0.9625	30.186		
Δ^8 -THC	0.7095	28.028		
THC-COOH	2.2844	22.559		

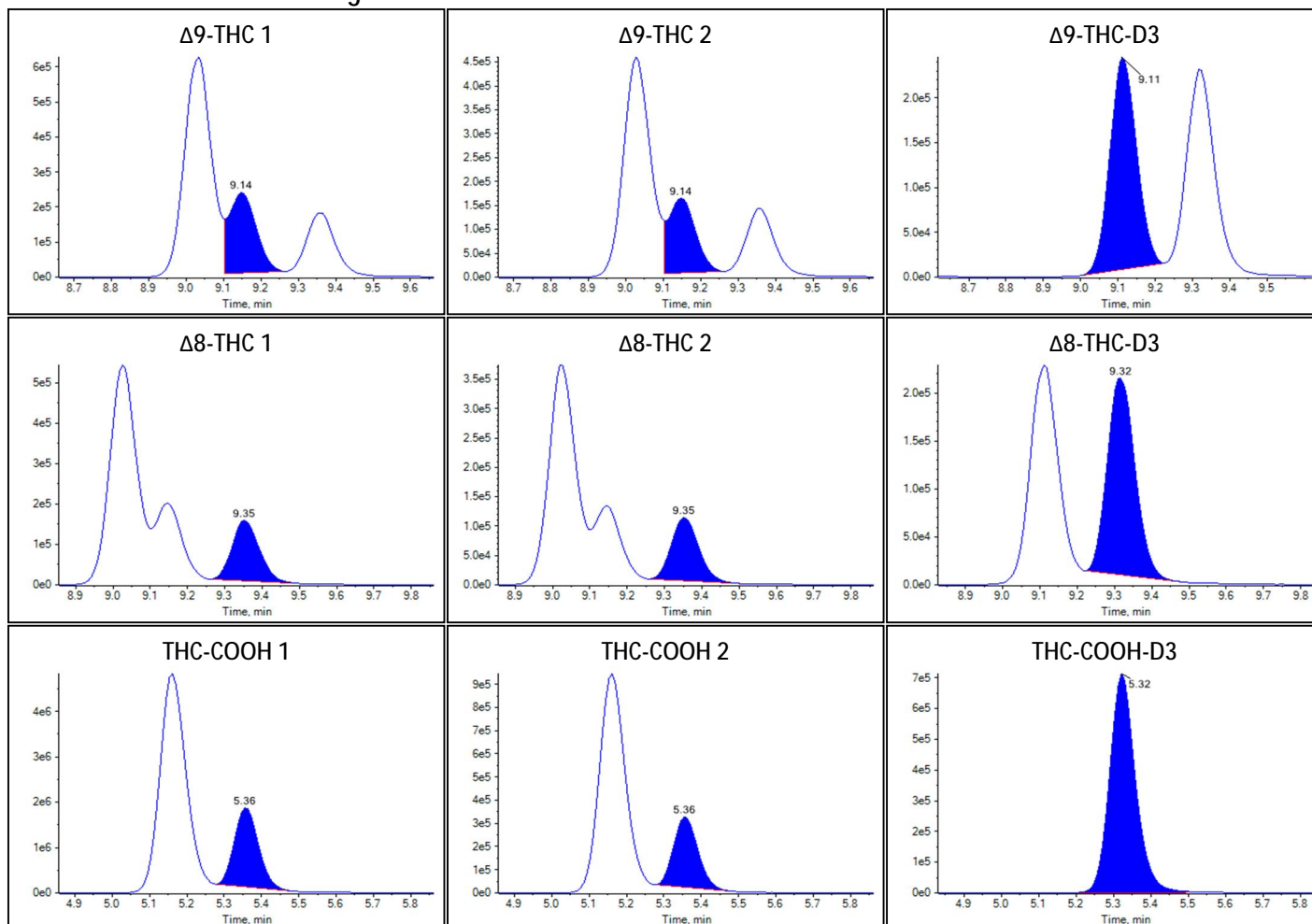
Identification Summary: Standard 3 High

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.020(Pass)	
THC-OH 2	331.1 / 105.1	1.020(Pass)	0.804(Fail)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.676(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.725(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.175(Pass)

Peak Review: Standard 3 High



Peak Review: Standard 3 High





Sample Summary

Sample Name	Standard 4 Low
Acquisition Date/Time	2022-10-13T19:55:07
Acquisition Method	THC.dam
Batch Name	20221013 In window interferences.dab
Results Table	20221013 in window interferences
Sample Type	Unknown
File Name	20221013 In window interferences.wiff
Position	47
Sample Comment	

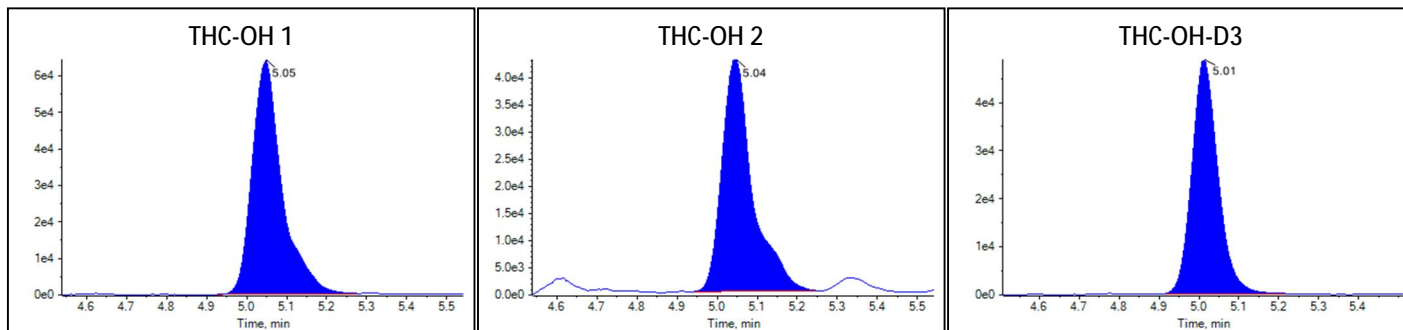
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.4982	13.256		
Δ^9 -THC	1.3024	41.097		
Δ^8 -THC	1.2227	50.380		
THC-COOH	4.8381	47.953		

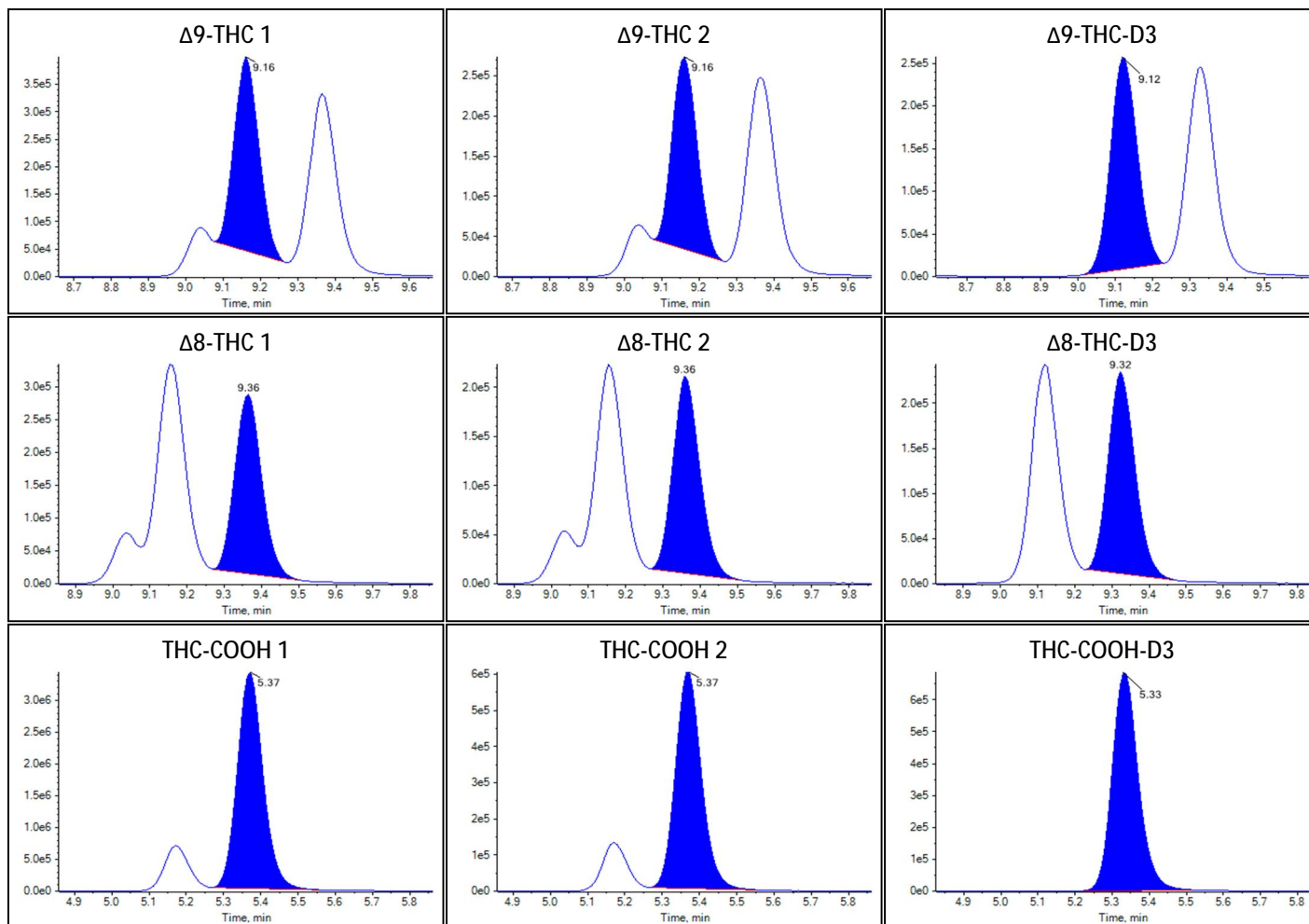
Identification Summary: Standard 4 Low

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.688(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.686(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.733(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.178(Pass)

Peak Review: Standard 4 Low



Peak Review: Standard 4 Low





Sample Summary

Sample Name	Standard 4 High
Acquisition Date/Time	2022-10-13T20:09:12
Acquisition Method	THC.dam
Batch Name	20221013 In window interferences.dab
Results Table	20221013 in window interferences
Sample Type	Unknown
File Name	20221013 In window interferences.wiff
Position	48
Sample Comment	

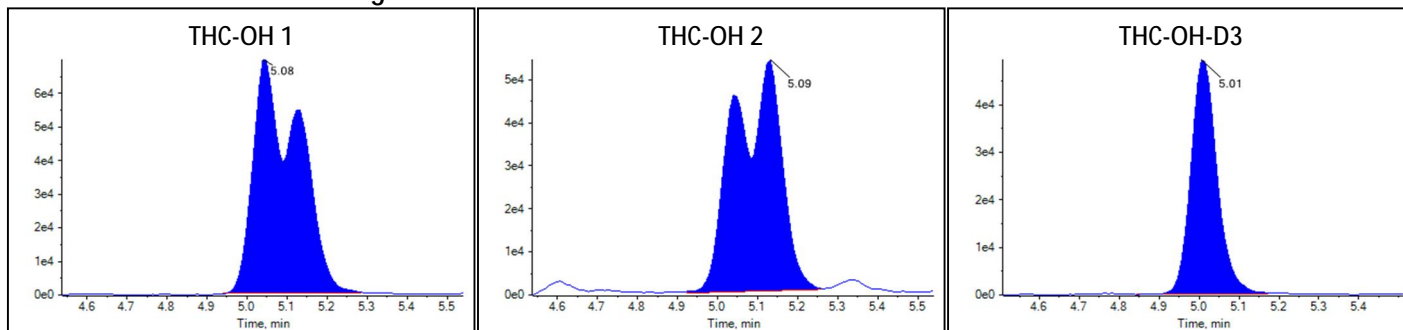
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.4531	21.676		
Δ^9 -THC	1.6259	51.618		
Δ^8 -THC	1.2345	50.921		
THC-COOH	4.6871	46.451		

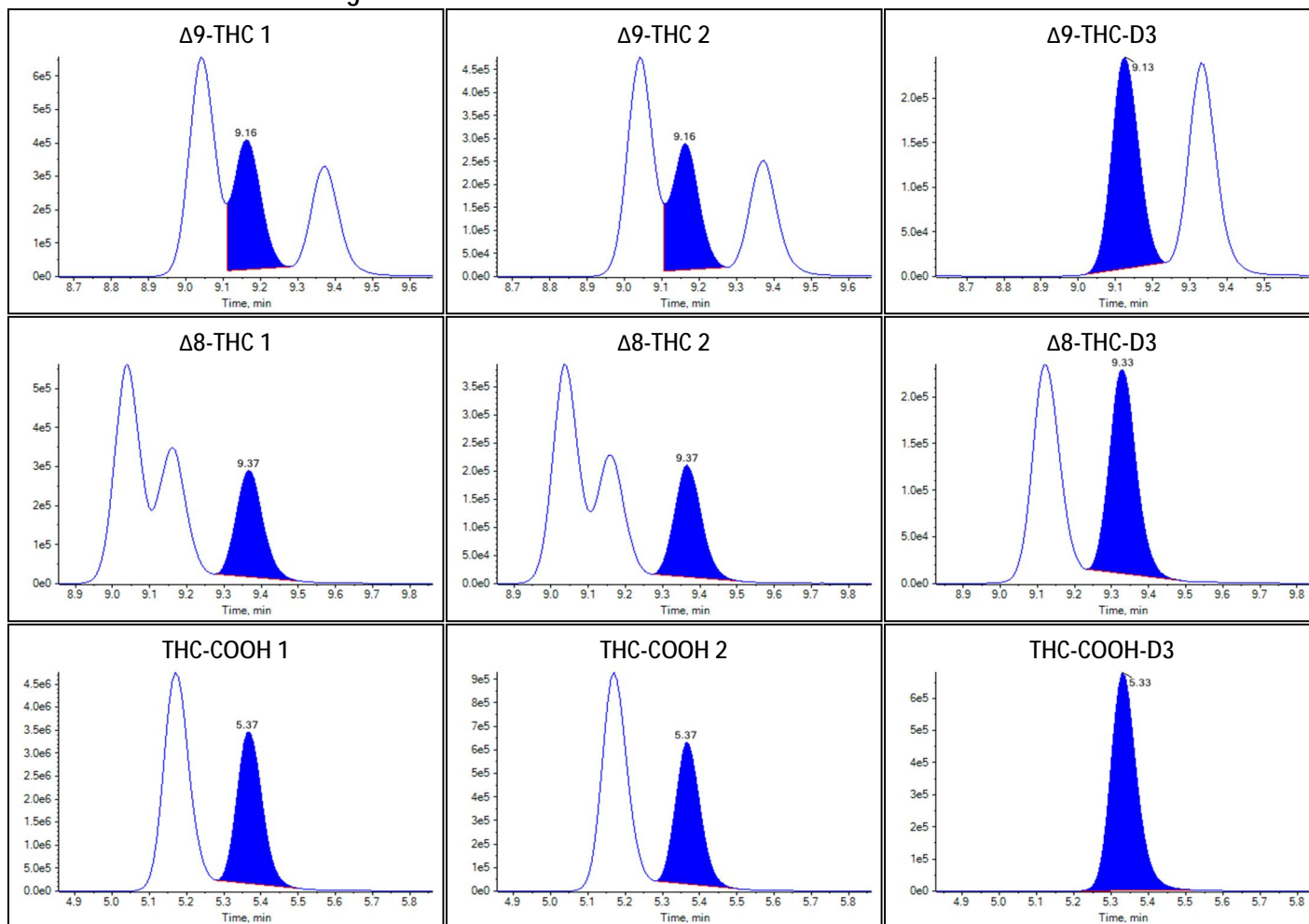
Identification Summary: Standard 4 High

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.020(Pass)	0.804(Fail)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.723(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.735(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.178(Pass)

Peak Review: Standard 4 High



Peak Review: Standard 4 High





Sample Summary

Sample Name	Standard 5 Low
Acquisition Date/Time	2022-10-13T20:23:17
Acquisition Method	THC.dam
Batch Name	20221013 In window interferences.dab
Results Table	20221013 in window interferences
Sample Type	Unknown
File Name	20221013 In window interferences.wiff
Position	49
Sample Comment	

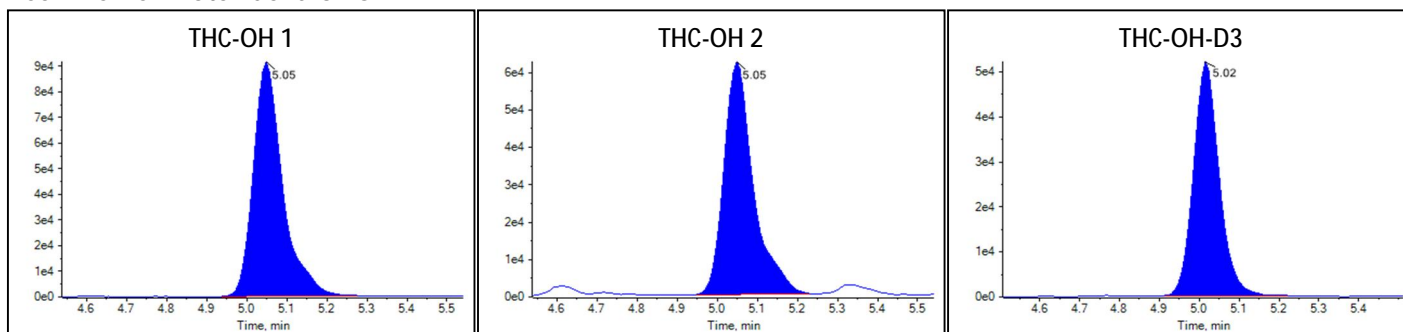
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.9798	17.503		
Δ^9 -THC	1.9280	61.565		
Δ^8 -THC	1.6666	71.658		
THC-COOH	7.2312	71.750		

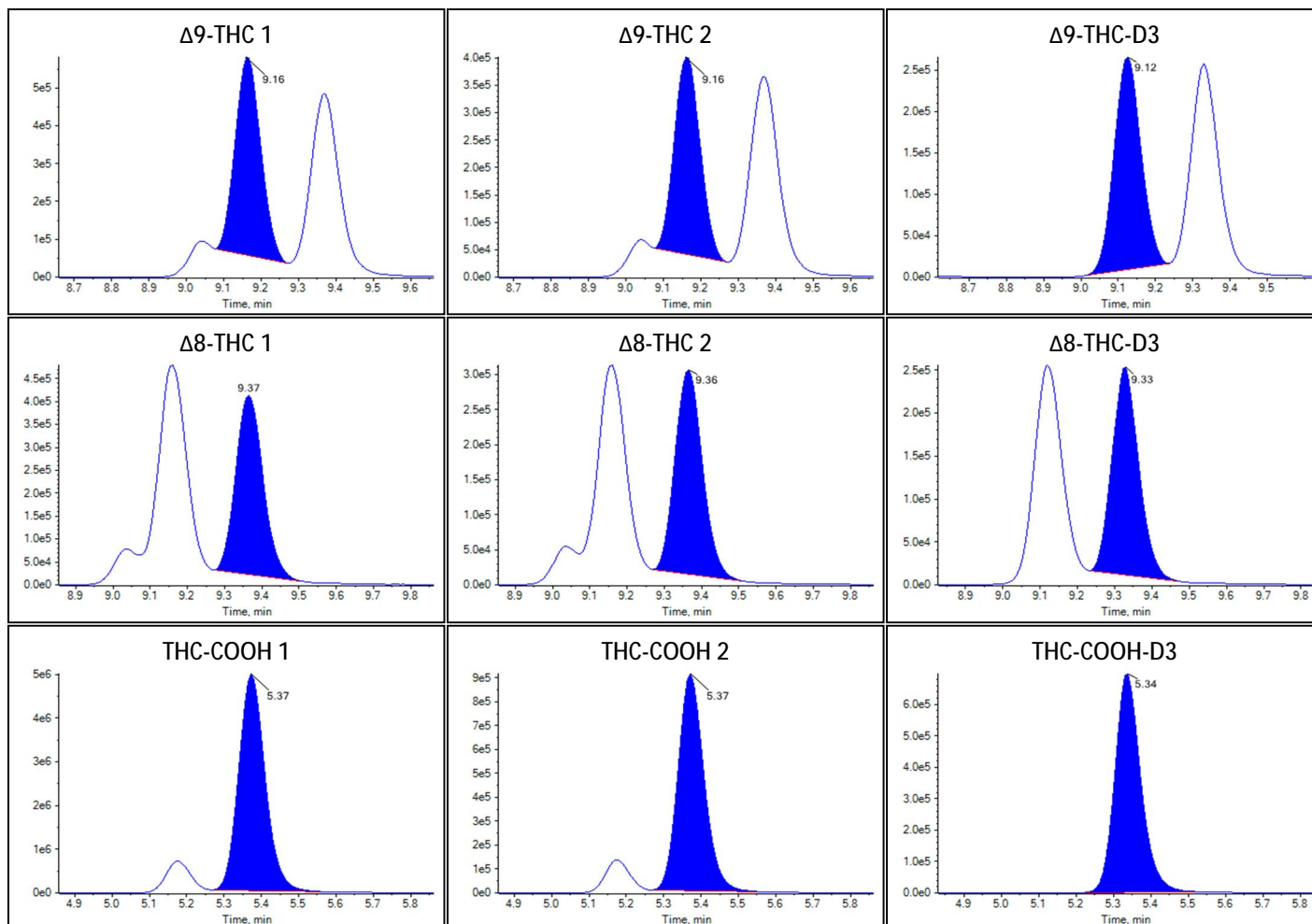
Identification Summary: Standard 5 Low

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.687(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.695(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.744(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.181(Pass)

Peak Review: Standard 5 Low



Peak Review: Standard 5 Low





Sample Summary

Sample Name	Standard 5 High
Acquisition Date/Time	2022-10-13T20:37:23
Acquisition Method	THC.dam
Batch Name	20221013 In window interferences.dab
Results Table	20221013 in window interferences
Sample Type	Unknown
File Name	20221013 In window interferences.wiff
Position	50
Sample Comment	

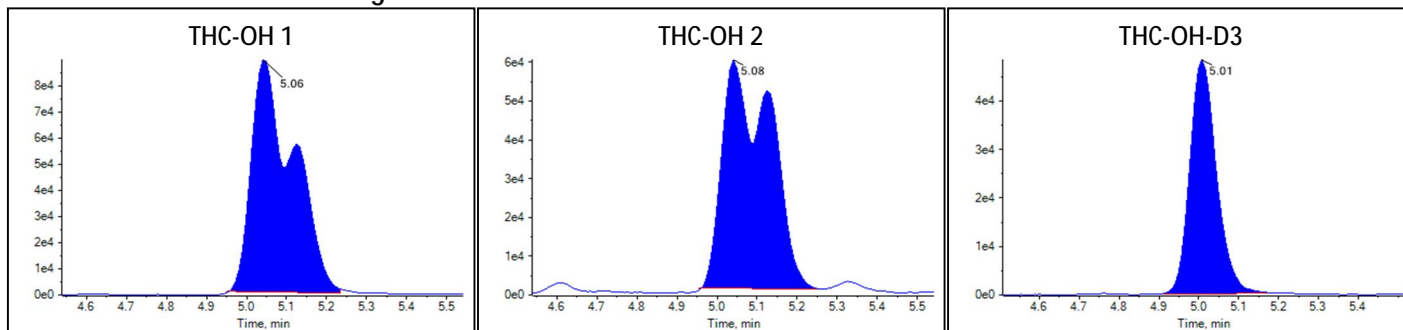
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.9088	25.694		
Δ 9-THC	1.3098	41.336		
Δ 8-THC	1.6694	71.797		
THC-COOH	6.7941	67.404		

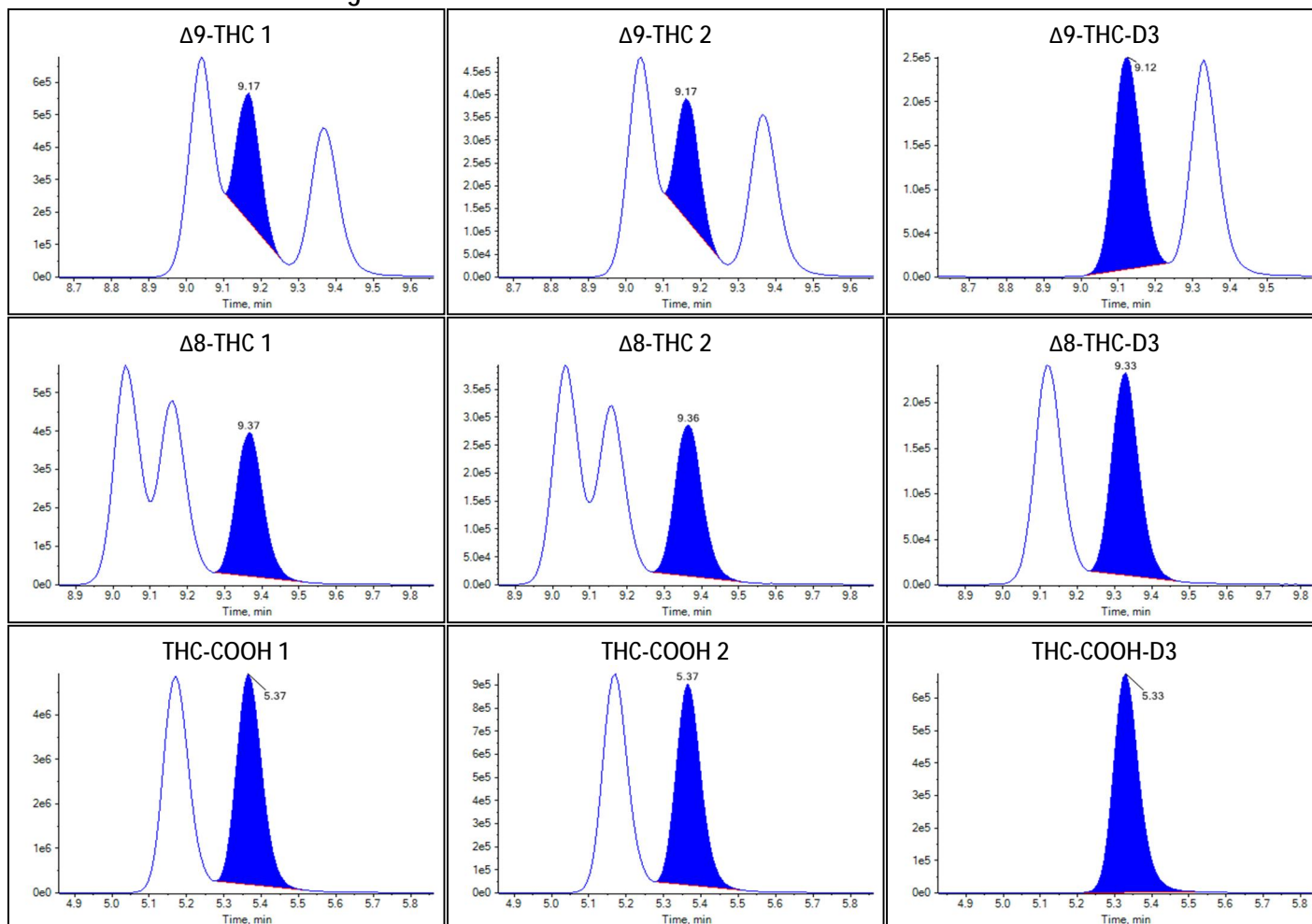
Identification Summary: Standard 5 High

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.755(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.675(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.736(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.182(Pass)

Peak Review: Standard 5 High



Peak Review: Standard 5 High





Sample Summary

Sample Name	Standard 6 Low
Acquisition Date/Time	2022-10-13T20:51:28
Acquisition Method	THC.dam
Batch Name	20221013 In window interferences.dab
Results Table	20221013 in window interferences
Sample Type	Unknown
File Name	20221013 In window interferences.wiff
Position	51
Sample Comment	

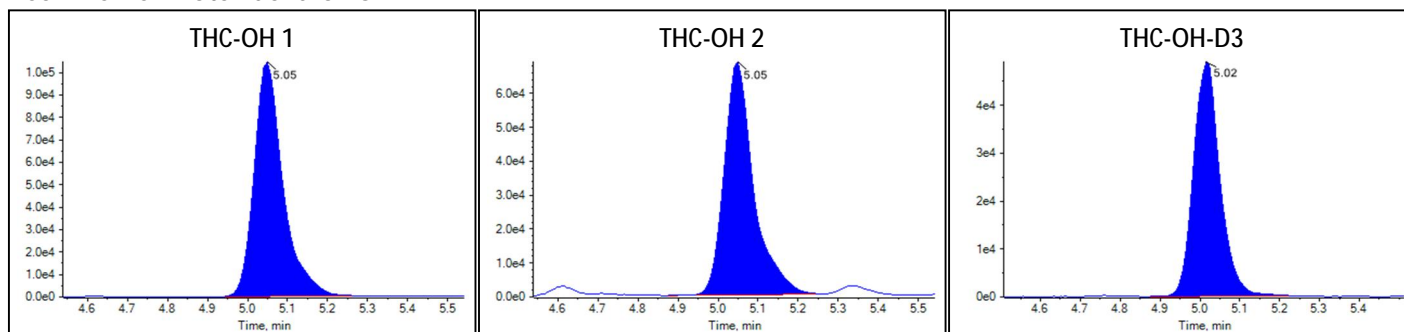
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.3086	20.401		
Δ^9 -THC	2.7133	88.010		
Δ^8 -THC	2.0858	93.994		
THC-COOH	9.7440	96.737		

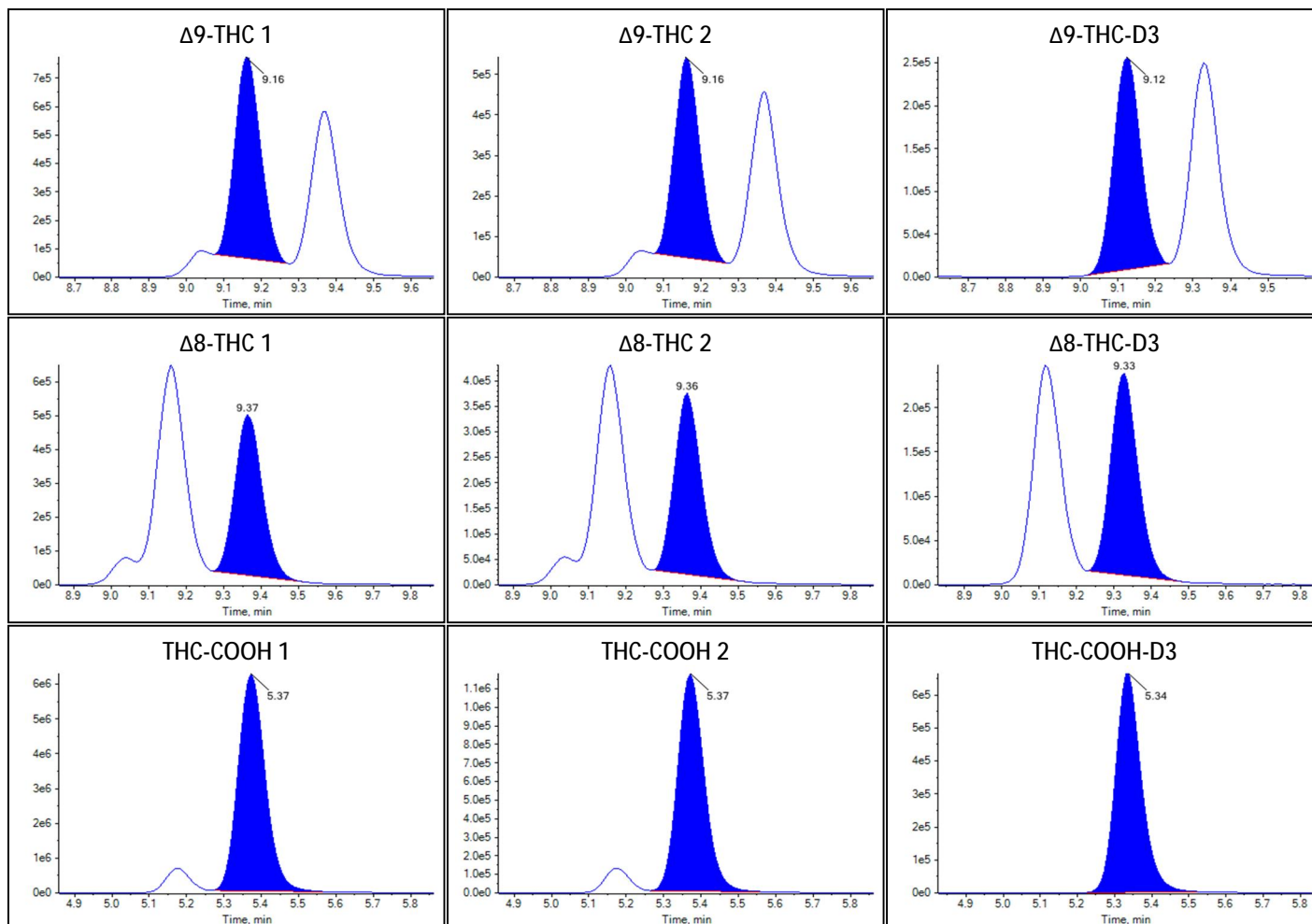
Identification Summary: Standard 6 Low

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.675(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.687(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.732(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.184(Pass)

Peak Review: Standard 6 Low



Peak Review: Standard 6 Low





Sample Summary

Sample Name	Standard 6 High
Acquisition Date/Time	2022-10-13T21:05:34
Acquisition Method	THC.dam
Batch Name	20221013 In window interferences.dab
Results Table	20221013 in window interferences
Sample Type	Unknown
File Name	20221013 In window interferences.wiff
Position	52
Sample Comment	

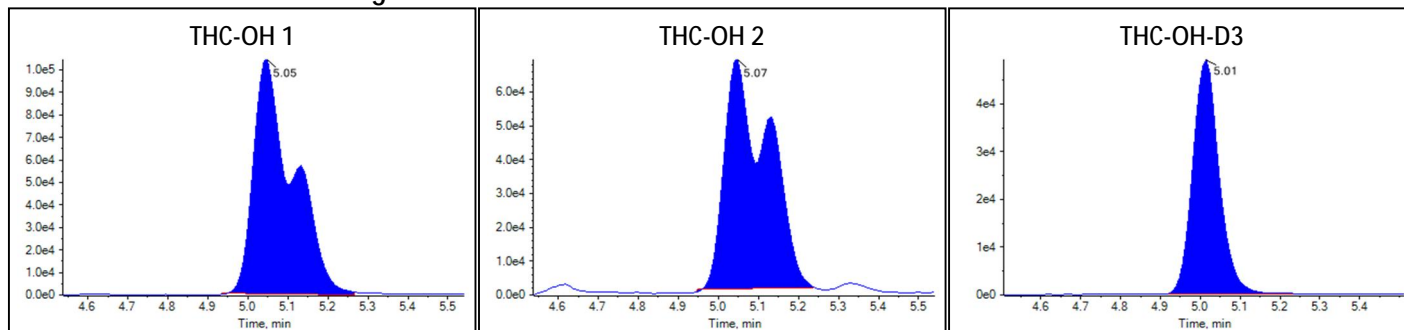
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	3.1795	28.080		
Δ^9 -THC	1.9214	61.347		
Δ^8 -THC	2.0145	90.007		
THC-COOH	9.0856	90.189		

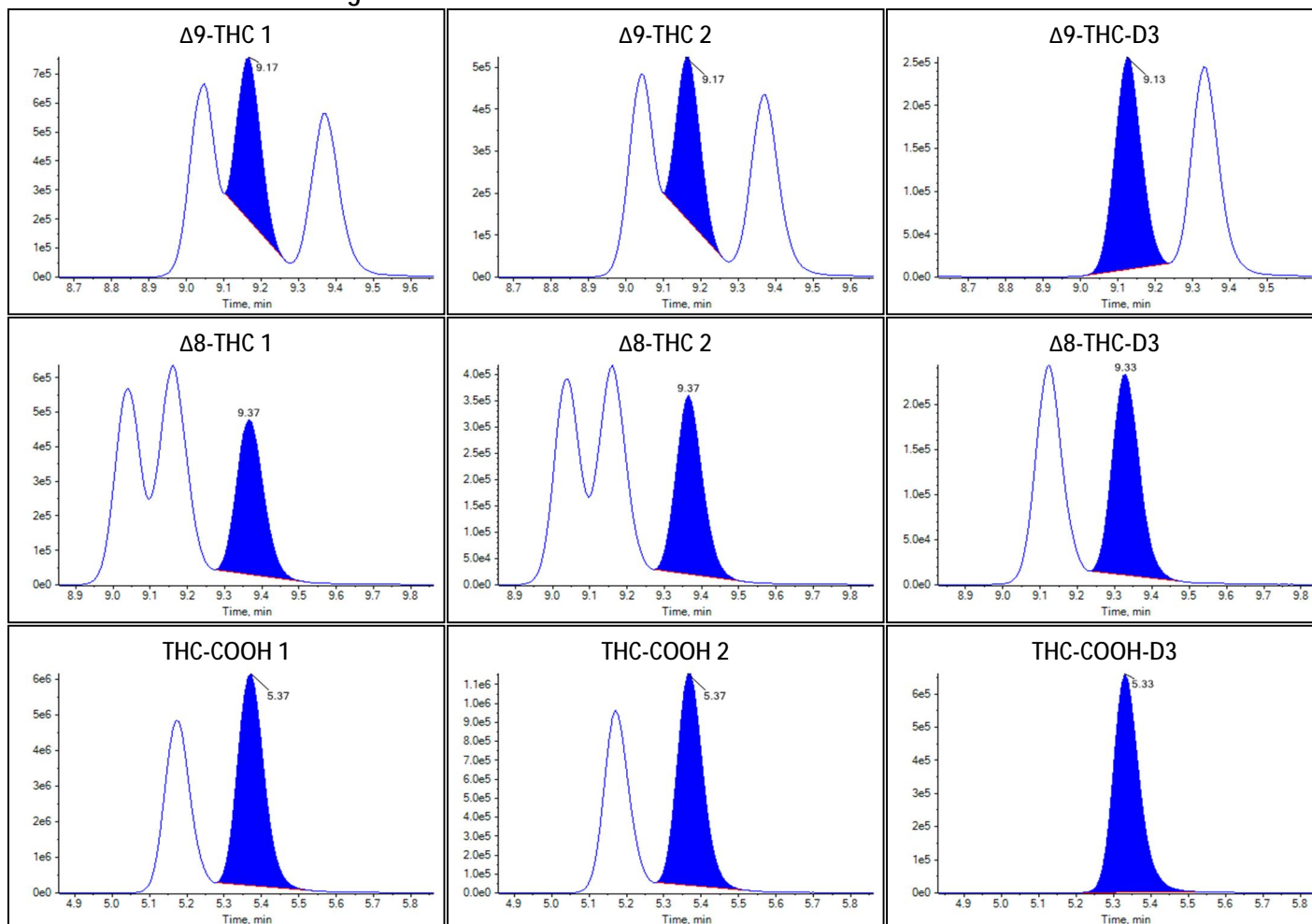
Identification Summary: Standard 6 High

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.714(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.704(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.737(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.184(Pass)

Peak Review: Standard 6 High



Peak Review: Standard 6 High





Sample Summary

Sample Name	Low
Acquisition Date/Time	2022-10-13T21:19:39
Acquisition Method	THC.dam
Batch Name	20221013 In window interferences.dab
Results Table	20221013 in window interferences
Sample Type	Quality Control
File Name	20221013 In window interferences.wiff
Position	53
Sample Comment	

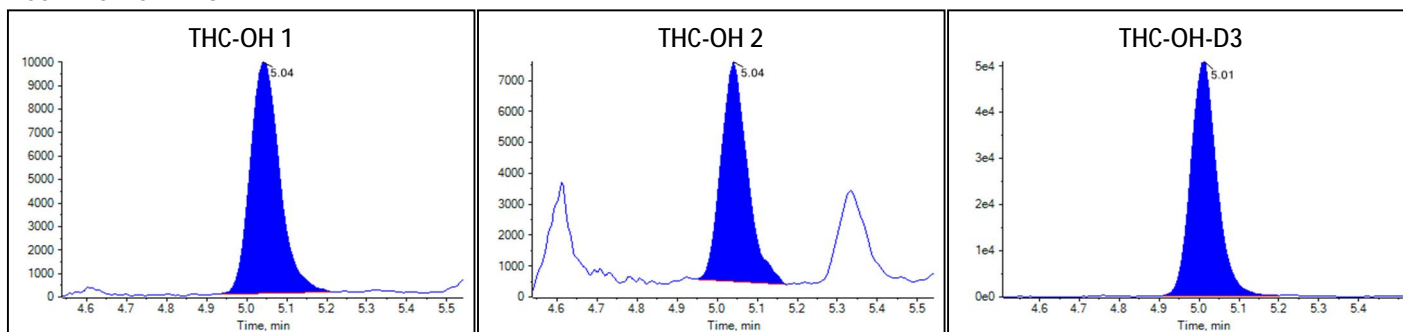
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.2198	1.984		
Δ 9-THC	0.0930	2.893		
Δ 8-THC	0.0750	2.893		
THC-COOH	0.7914	7.713		

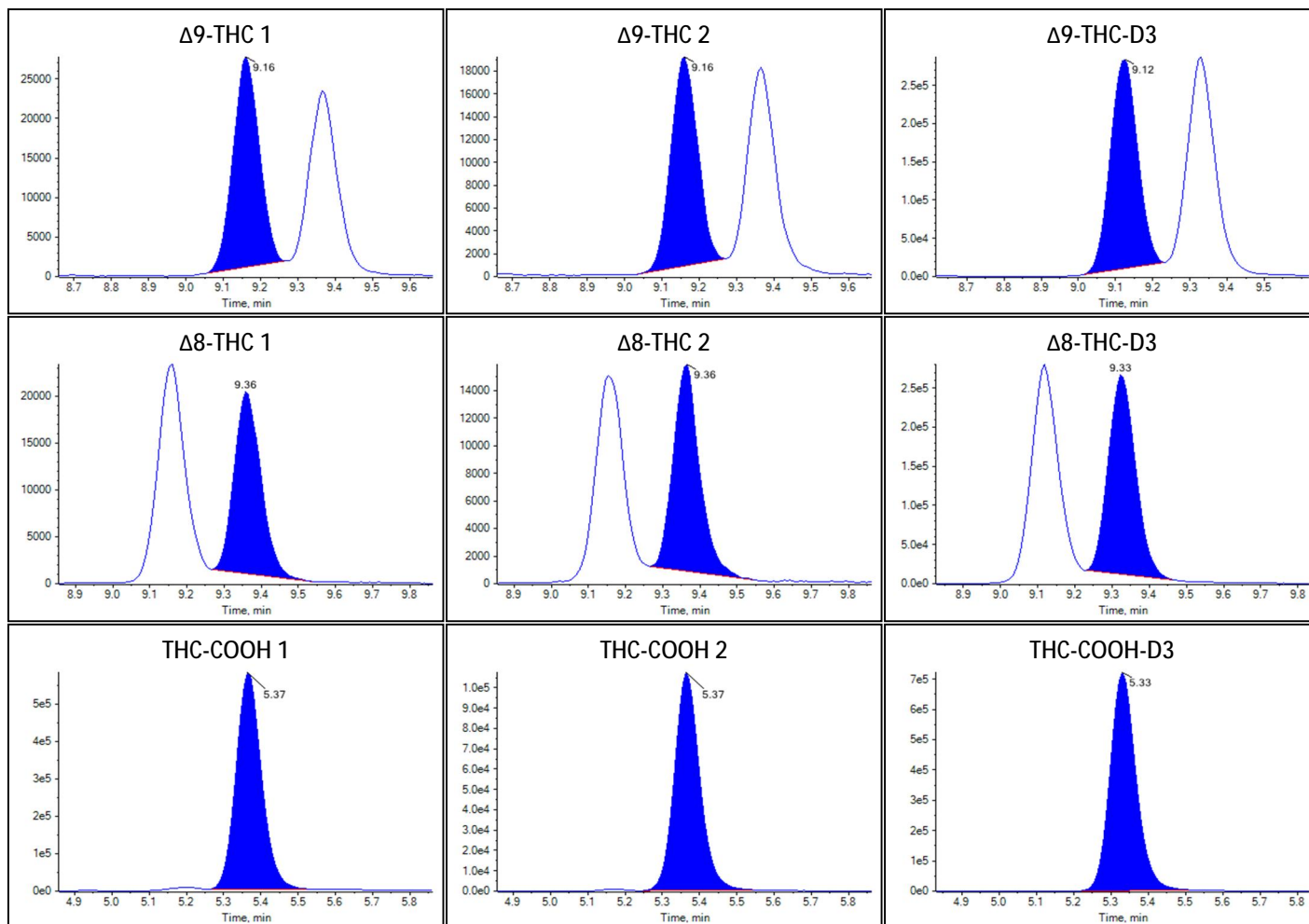
Identification Summary: Low

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.642(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.703(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.755(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.183(Pass)

Peak Review: Low



Peak Review: Low





Sample Summary

Sample Name	High
Acquisition Date/Time	2022-10-13T21:33:44
Acquisition Method	THC.dam
Batch Name	20221013 In window interferences.dab
Results Table	20221013 in window interferences
Sample Type	Quality Control
File Name	20221013 In window interferences.wiff
Position	54
Sample Comment	

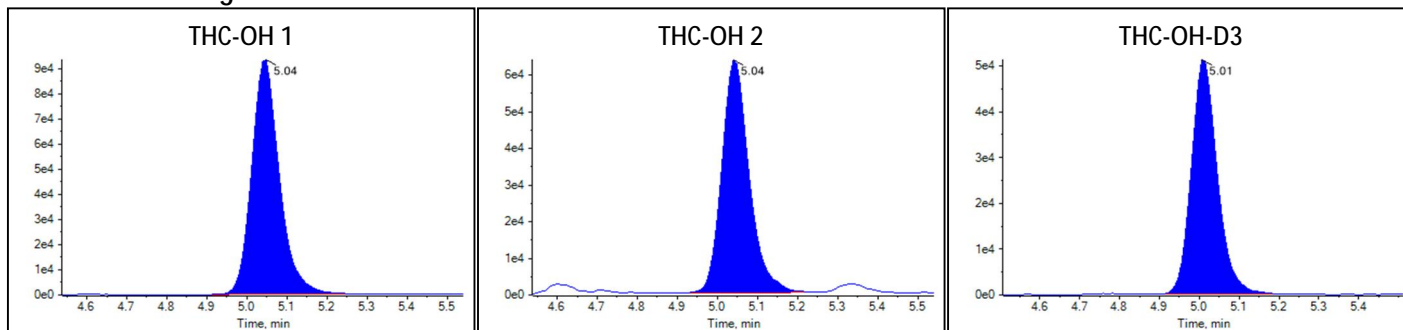
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.9325	17.085		
Δ 9-THC	2.6490	85.811		
Δ 8-THC	2.0512	92.052		
THC-COOH	7.6868	76.280		

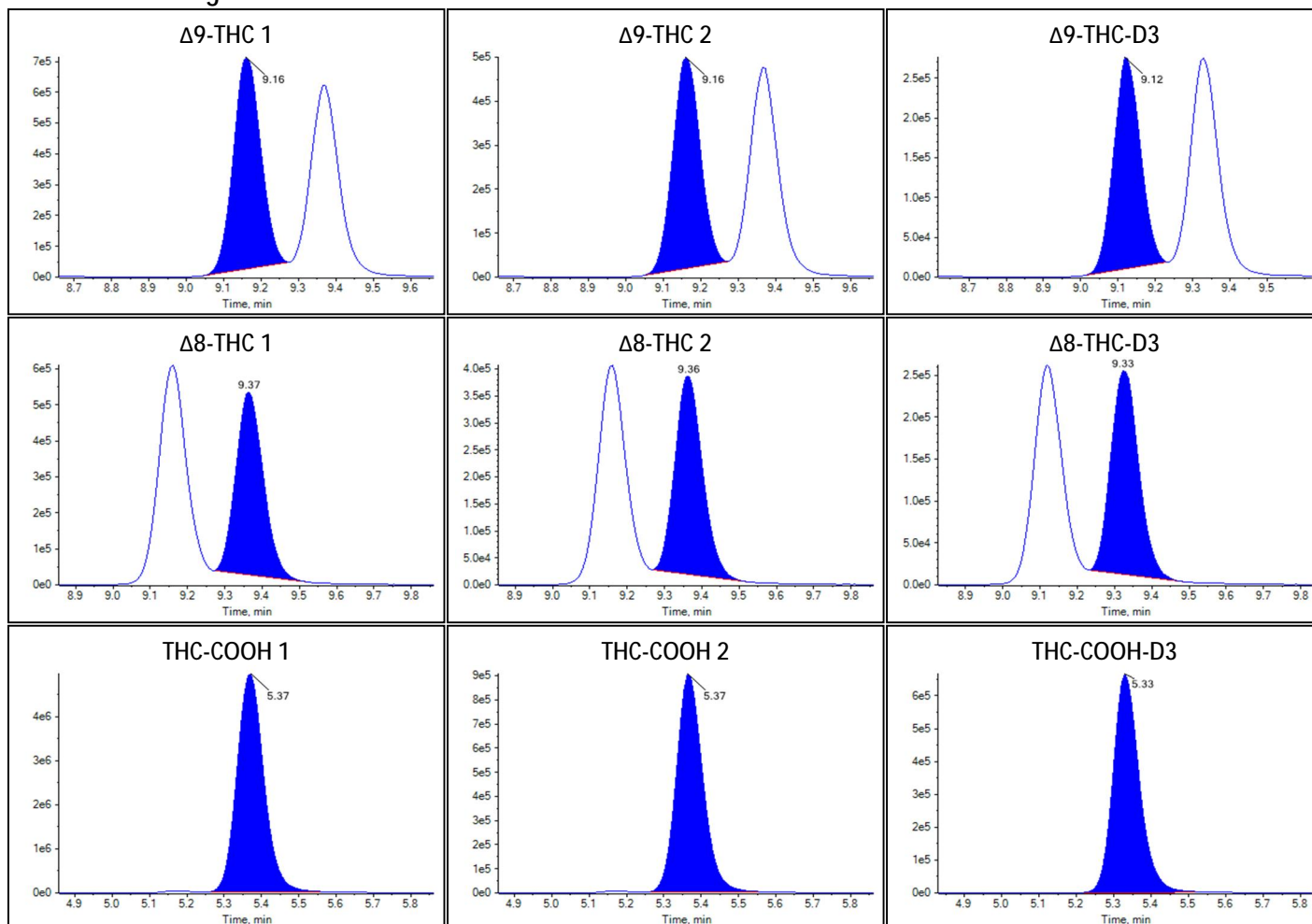
Identification Summary: High

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.676(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.697(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.729(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.179(Pass)

Peak Review: High



Peak Review: High



ION SUPPRESSION AND ENHANCEMENT

Cannabinoid Lot Log	
Date	09-13-22
Analyst	JUG
Checked tubes	N/A
Sample preparation	
Sample Pipette	007
Blank Blood	CU, CV, CW, CY, FT, FU, FW, FX, GA, GB
Standards	N/A
Controls	09-12-22 SB
Standards/Controls Pipette	104
Internal Standard	09-13-22 SK
Internal Standard Pipette	104
0.1 % formic acid in H ₂ O	08-29-22 SB
Extraction	
SLE Cartridge	22061206CA
MTBE	L322A-2
B: 0.1% formic acid in ACN	N/A
A: 0.1 % formic acid in H ₂ O	08-15-22 JA
Instrumentation	
A: 0.1 % formic acid in H ₂ O	09-01-22 HK
B: 0.1% formic acid in ACN	09-12-22 SB
Column Serial Number	USCGC17438
Instrument	21-1
Sequence Check:	
Notes: Matrix Effect.	



Sample Summary

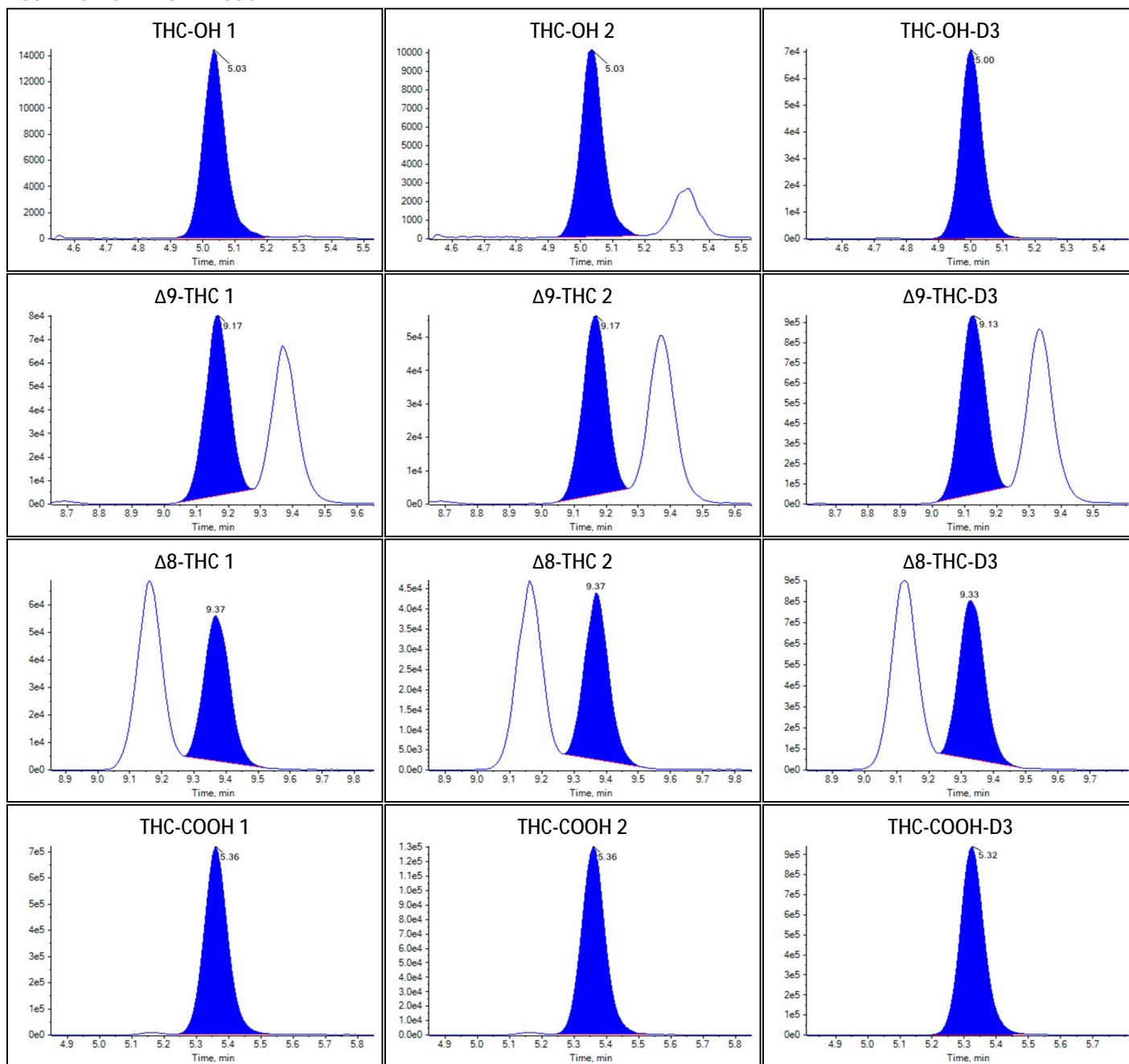
Sample Name	Low Neat 1
Acquisition Date/Time	2022-09-13T10:04:31
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	1
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	2.056e-1		
Δ 9-THC	8.331e-2		
Δ 8-THC	6.956e-2		
THC-COOH	7.435e-1		

Identification Summary: Low Neat 1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.710(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.716(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.735(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.183(Not calculated)

Peak Review: Low Neat 1





Sample Summary

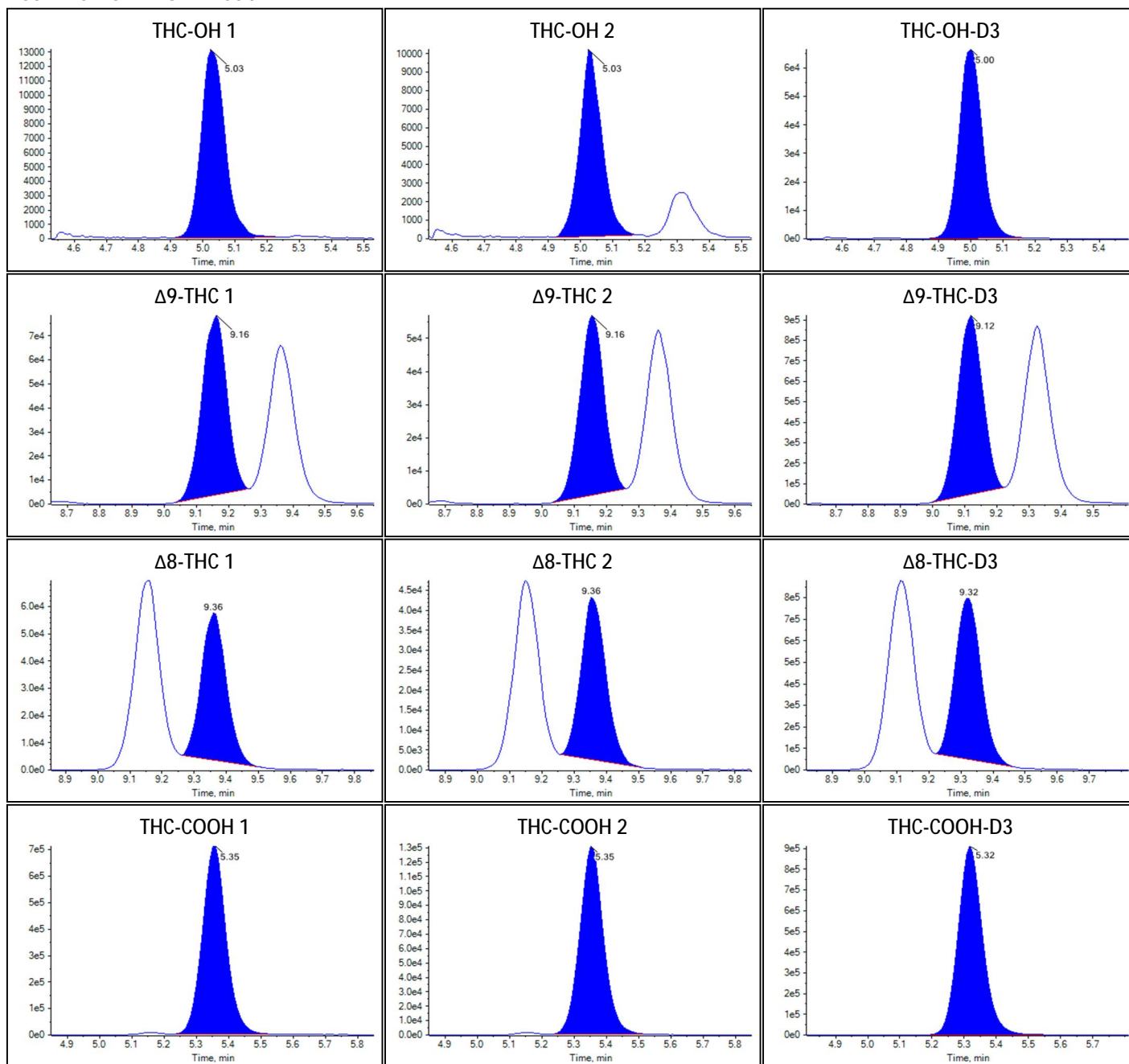
Sample Name	Low Neat 2
Acquisition Date/Time	2022-09-13T10:18:36
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	2
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	2.013e-1		
Δ 9-THC	8.537e-2		
Δ 8-THC	7.002e-2		
THC-COOH	7.598e-1		

Identification Summary: Low Neat 2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.711(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.712(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.747(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.182(Not calculated)

Peak Review: Low Neat 2





Sample Summary

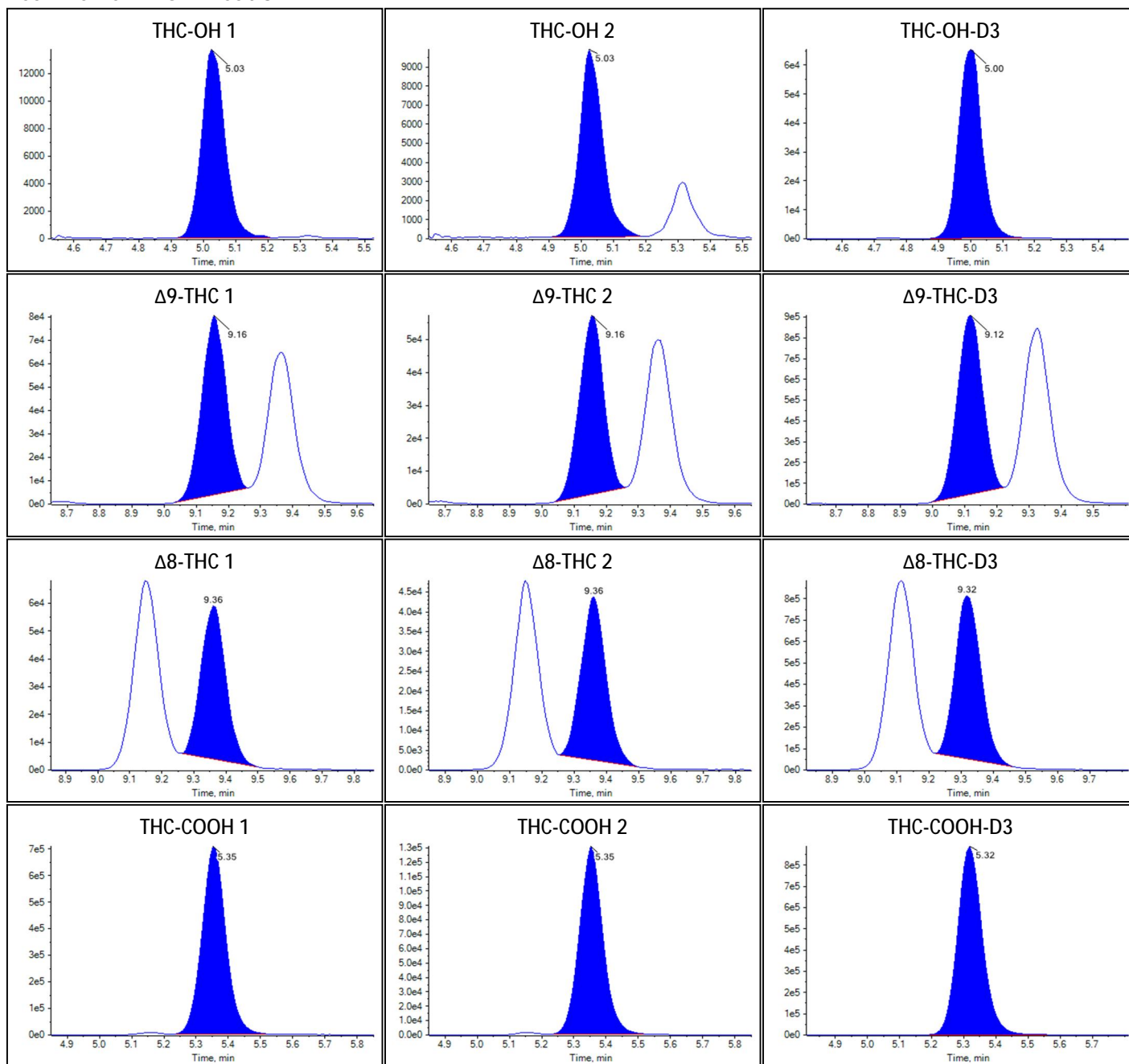
Sample Name	Low Neat 3
Acquisition Date/Time	2022-09-13T10:32:38
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	3
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	2.100e-1		
Δ 9-THC	8.557e-2		
Δ 8-THC	7.017e-2		
THC-COOH	7.680e-1		

Identification Summary: Low Neat 3

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.704(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.707(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.747(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.181(Not calculated)

Peak Review: Low Neat 3





Sample Summary

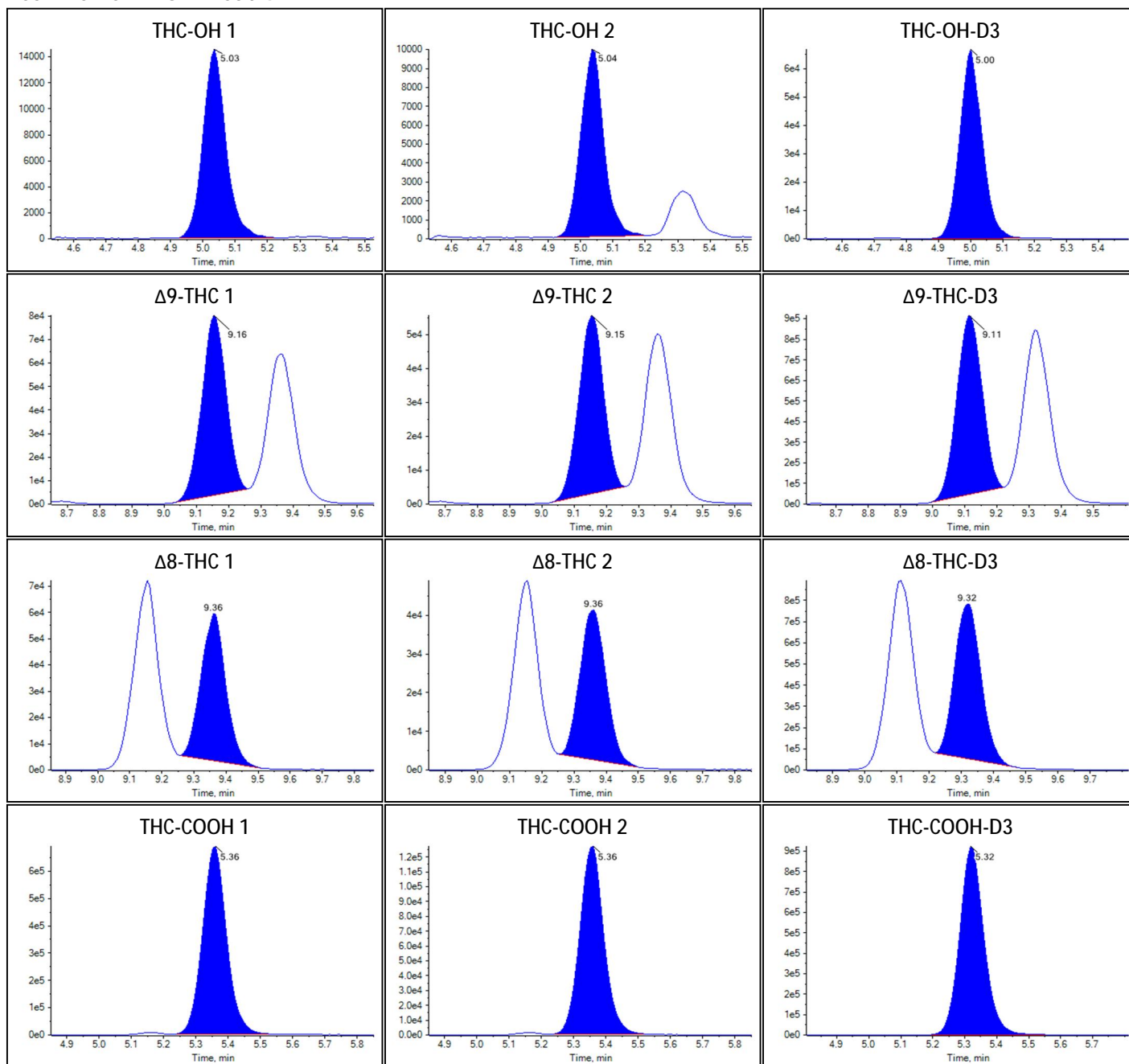
Sample Name	Low Neat 4
Acquisition Date/Time	2022-09-13T10:46:44
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	4
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	2.213e-1		
Δ 9-THC	8.497e-2		
Δ 8-THC	7.247e-2		
THC-COOH	7.355e-1		

Identification Summary: Low Neat 4

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.687(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.701(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.729(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.185(Not calculated)

Peak Review: Low Neat 4





Sample Summary

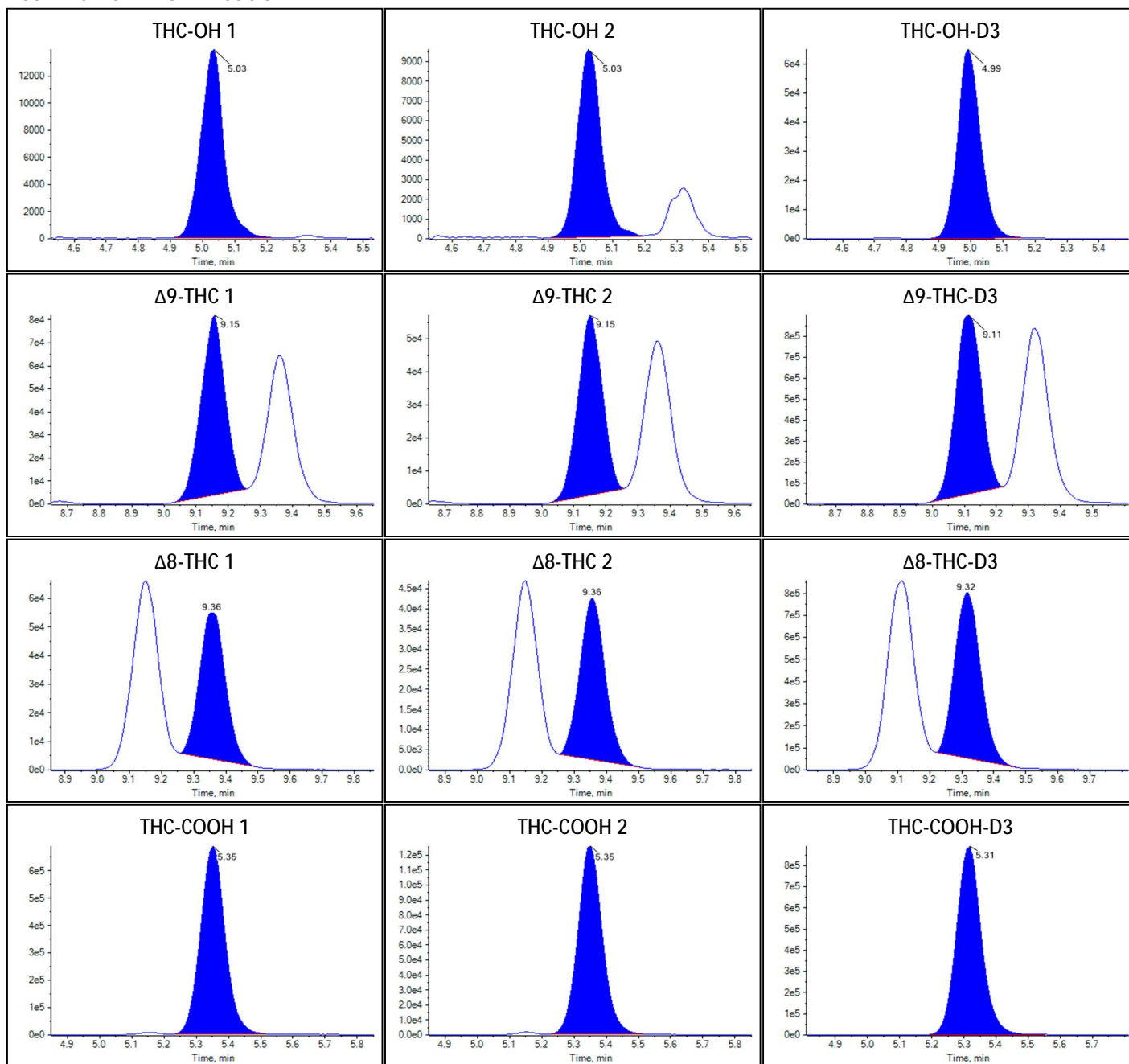
Sample Name	Low Neat 5
Acquisition Date/Time	2022-09-13T11:00:49
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	5
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	2.135e-1		
Δ 9-THC	8.420e-2		
Δ 8-THC	6.870e-2		
THC-COOH	7.619e-1		

Identification Summary: Low Neat 5

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.717(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.711(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.758(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.181(Not calculated)

Peak Review: Low Neat 5





Sample Summary

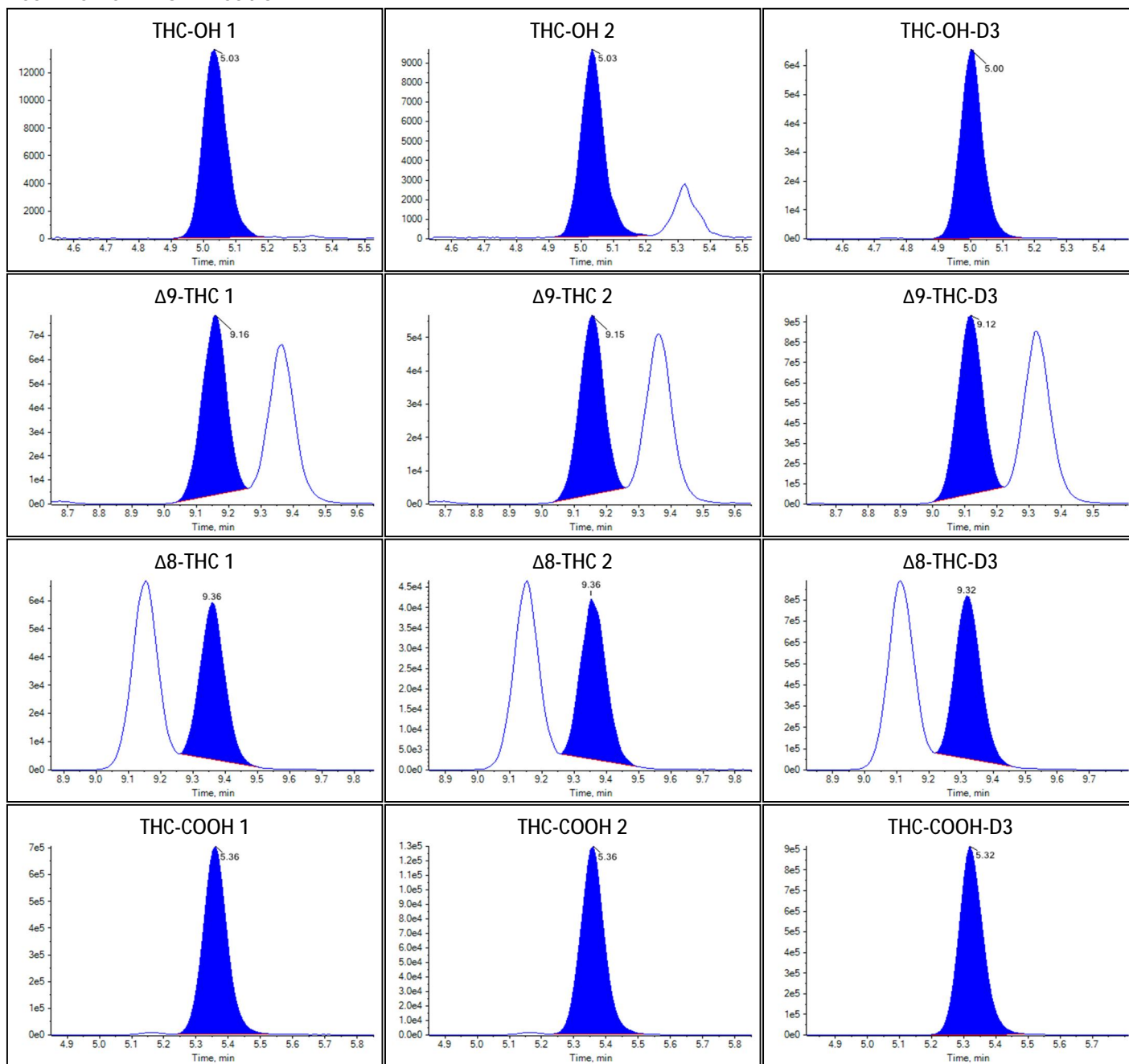
Sample Name	Low Neat 6
Acquisition Date/Time	2022-09-13T11:14:51
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	6
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	2.202e-1		
Δ 9-THC	8.367e-2		
Δ 8-THC	6.944e-2		
THC-COOH	7.639e-1		

Identification Summary: Low Neat 6

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.678(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.717(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.742(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.182(Not calculated)

Peak Review: Low Neat 6





Sample Summary

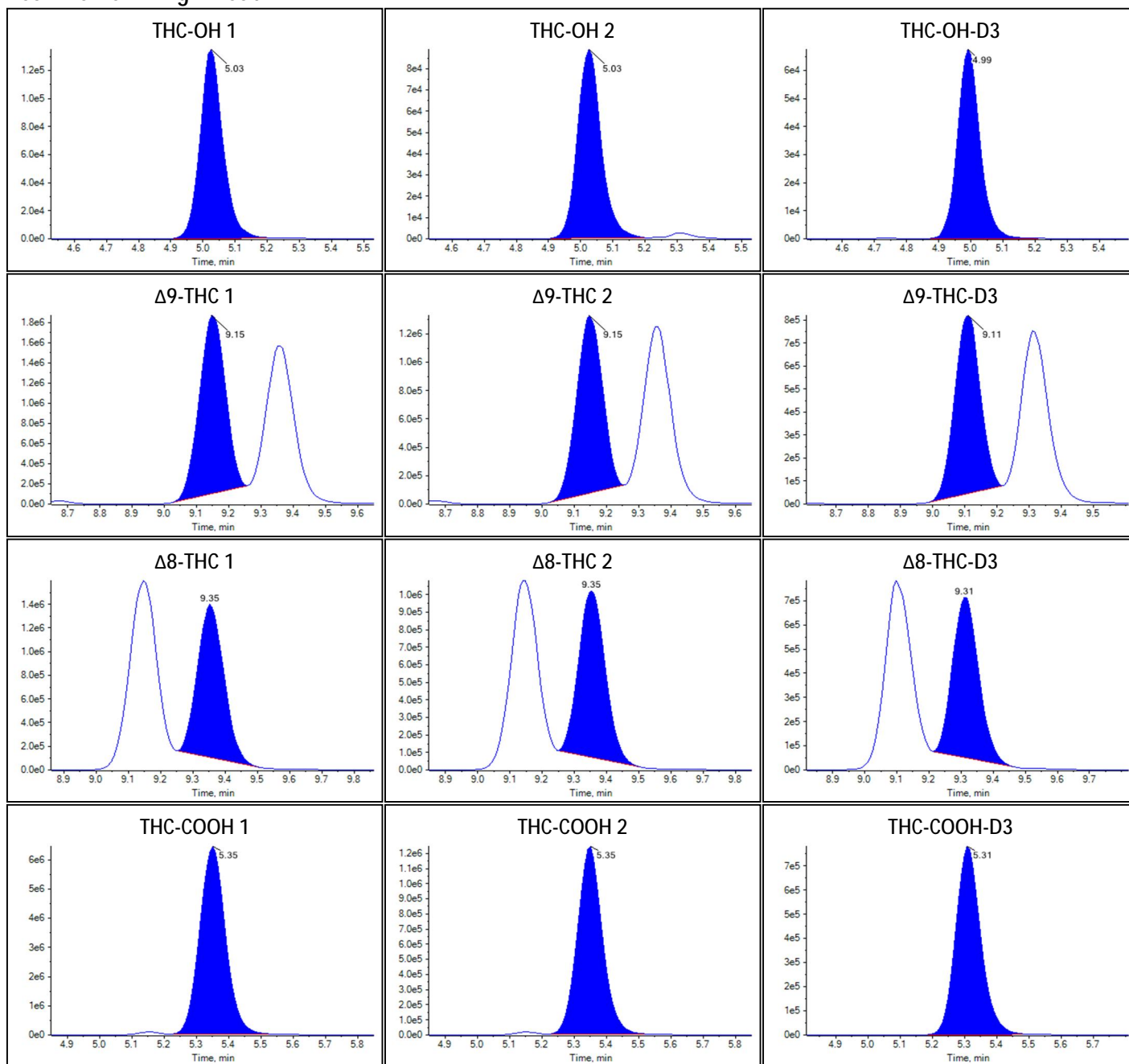
Sample Name	High Neat 1
Acquisition Date/Time	2022-09-13T11:28:54
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	7
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	2.025e0		
Δ 9-THC	2.321e0		
Δ 8-THC	1.952e0		
THC-COOH	8.521e0		

Identification Summary: High Neat 1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.686(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.704(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.746(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.186(Not calculated)

Peak Review: High Neat 1





Sample Summary

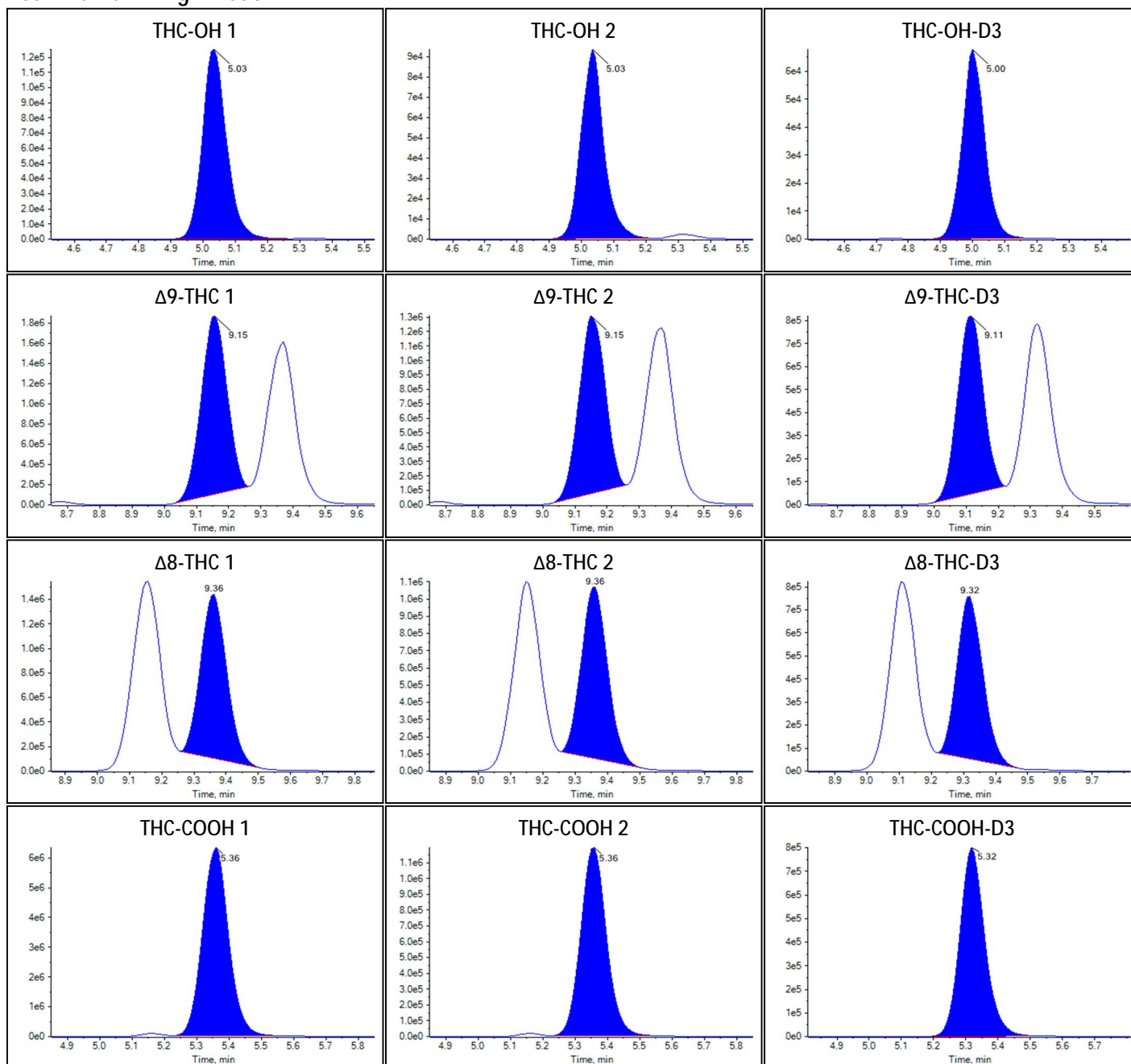
Sample Name	High Neat 2
Acquisition Date/Time	2022-09-13T11:42:59
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	8
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	1.968e0		
Δ 9-THC	2.300e0		
Δ 8-THC	1.915e0		
THC-COOH	8.278e0		

Identification Summary: High Neat 2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.707(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.706(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.746(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.186(Not calculated)

Peak Review: High Neat 2





Sample Summary

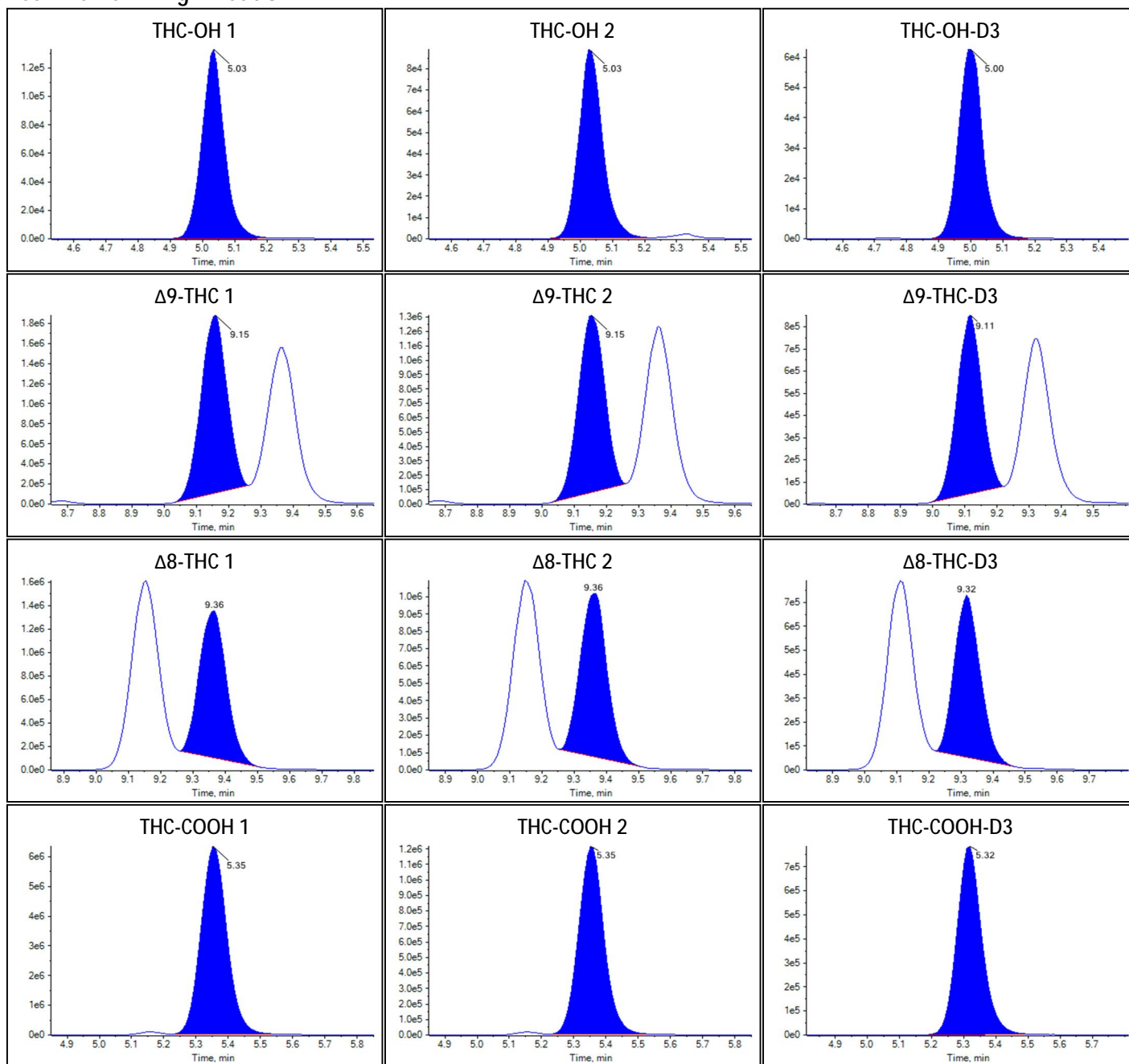
Sample Name	High Neat 3
Acquisition Date/Time	2022-09-13T11:57:05
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	9
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	1.962e0		
Δ 9-THC	2.296e0		
Δ 8-THC	1.936e0		
THC-COOH	8.449e0		

Identification Summary: High Neat 3

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.711(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.705(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.754(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.187(Not calculated)

Peak Review: High Neat 3





Sample Summary

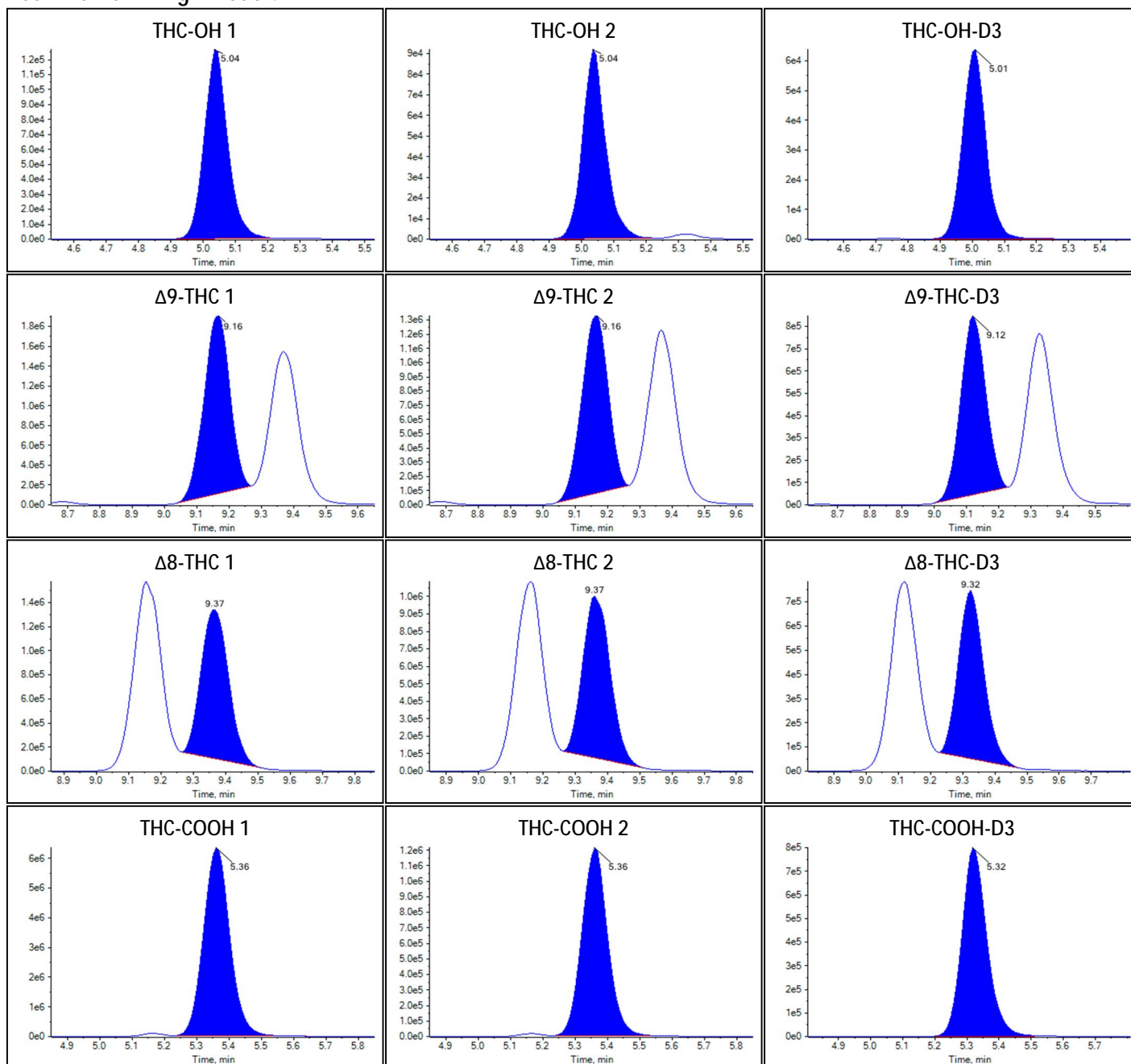
Sample Name	High Neat 4
Acquisition Date/Time	2022-09-13T12:11:10
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	10
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	1.963e0		
Δ 9-THC	2.316e0		
Δ 8-THC	1.917e0		
THC-COOH	8.305e0		

Identification Summary: High Neat 4

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.715(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.707(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.748(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.187(Not calculated)

Peak Review: High Neat 4





Sample Summary

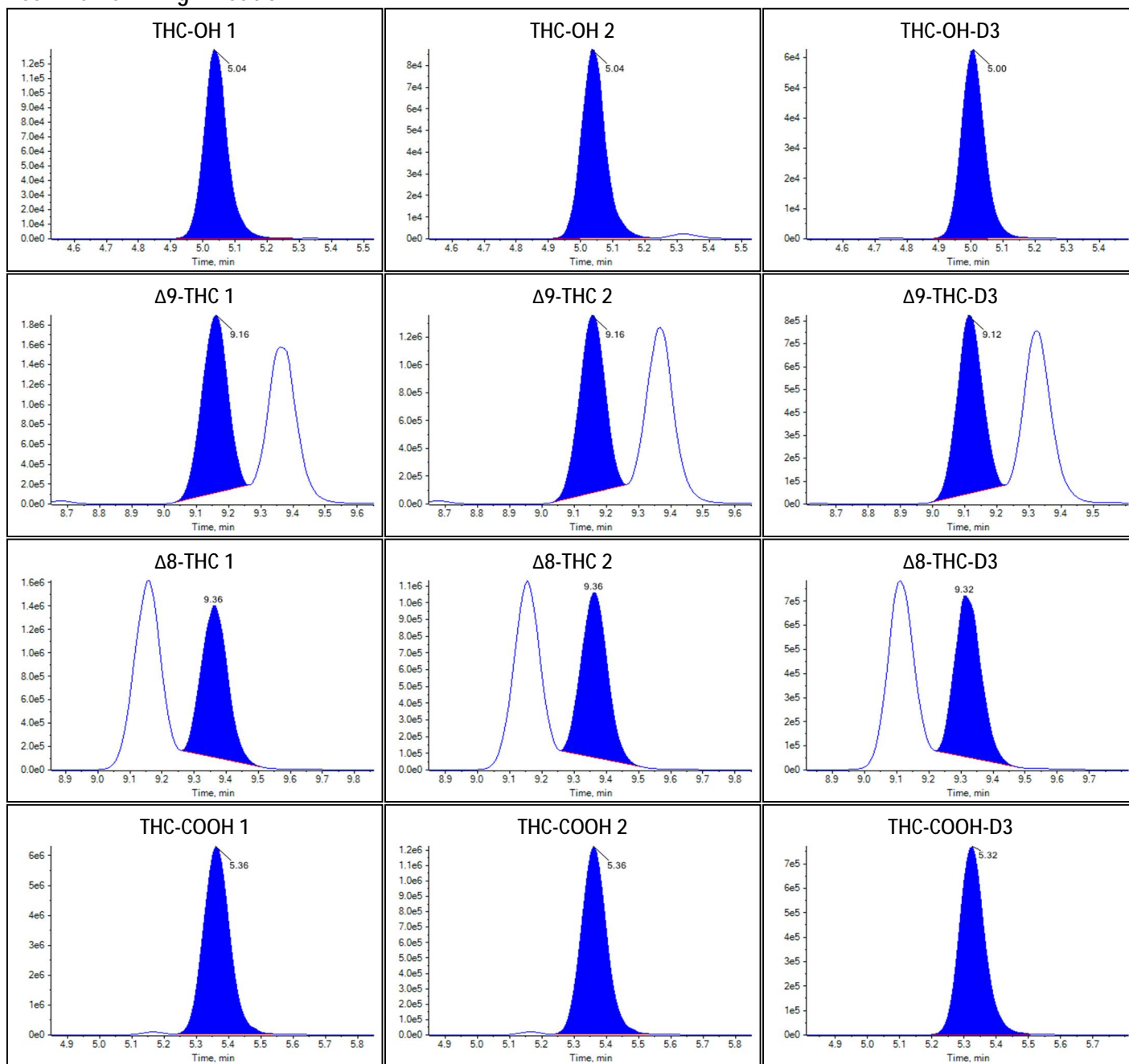
Sample Name	High Neat 5
Acquisition Date/Time	2022-09-13T12:25:15
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	11
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	2.076e0		
Δ 9-THC	2.335e0		
Δ 8-THC	1.928e0		
THC-COOH	8.457e0		

Identification Summary: High Neat 5

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.696(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.713(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.757(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.188(Not calculated)

Peak Review: High Neat 5





Sample Summary

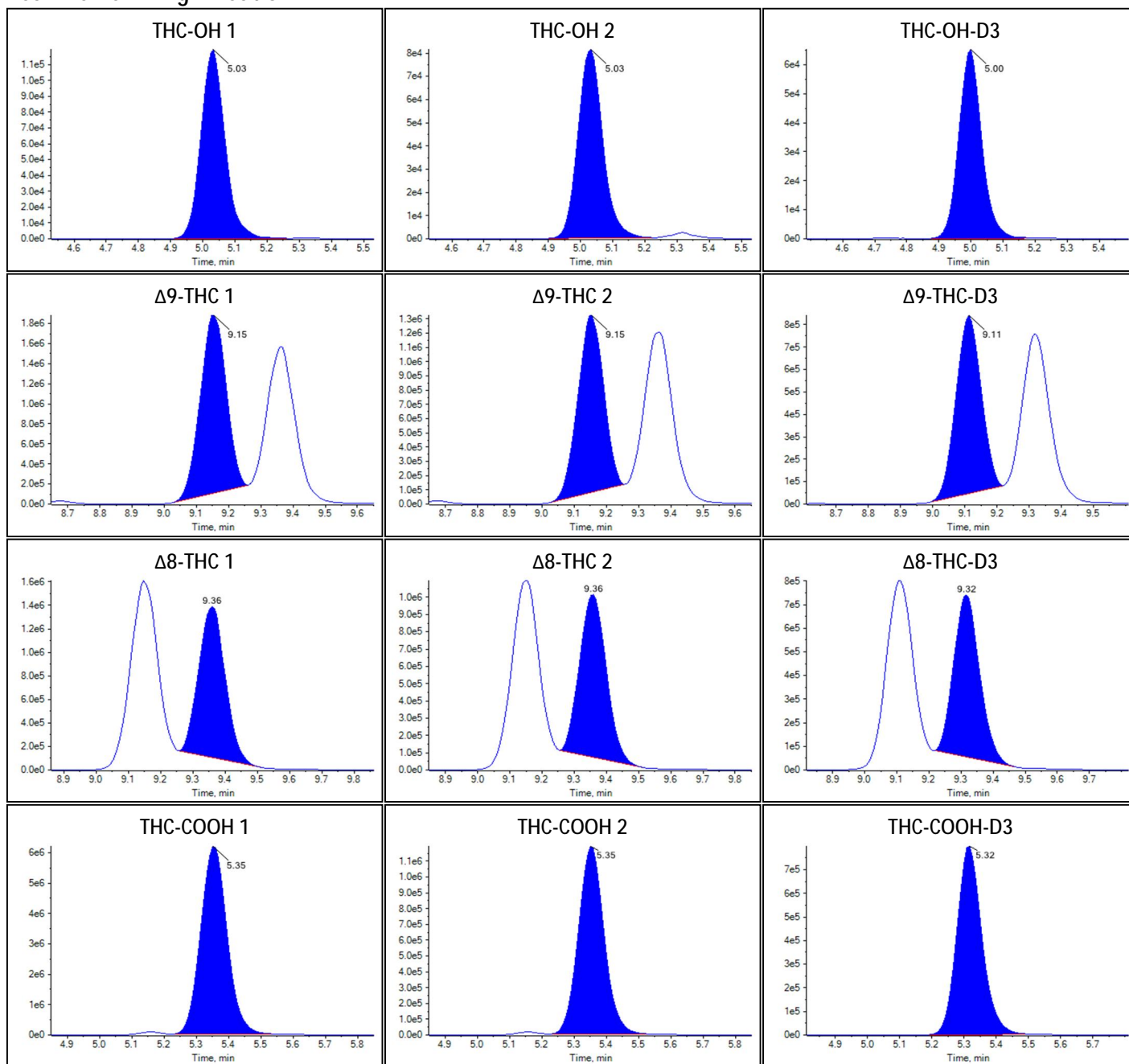
Sample Name	High Neat 6
Acquisition Date/Time	2022-09-13T12:39:21
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	12
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	1.912e0		
Δ 9-THC	2.306e0		
Δ 8-THC	1.914e0		
THC-COOH	8.144e0		

Identification Summary: High Neat 6

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.706(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.695(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.740(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.187(Not calculated)

Peak Review: High Neat 6





Sample Summary

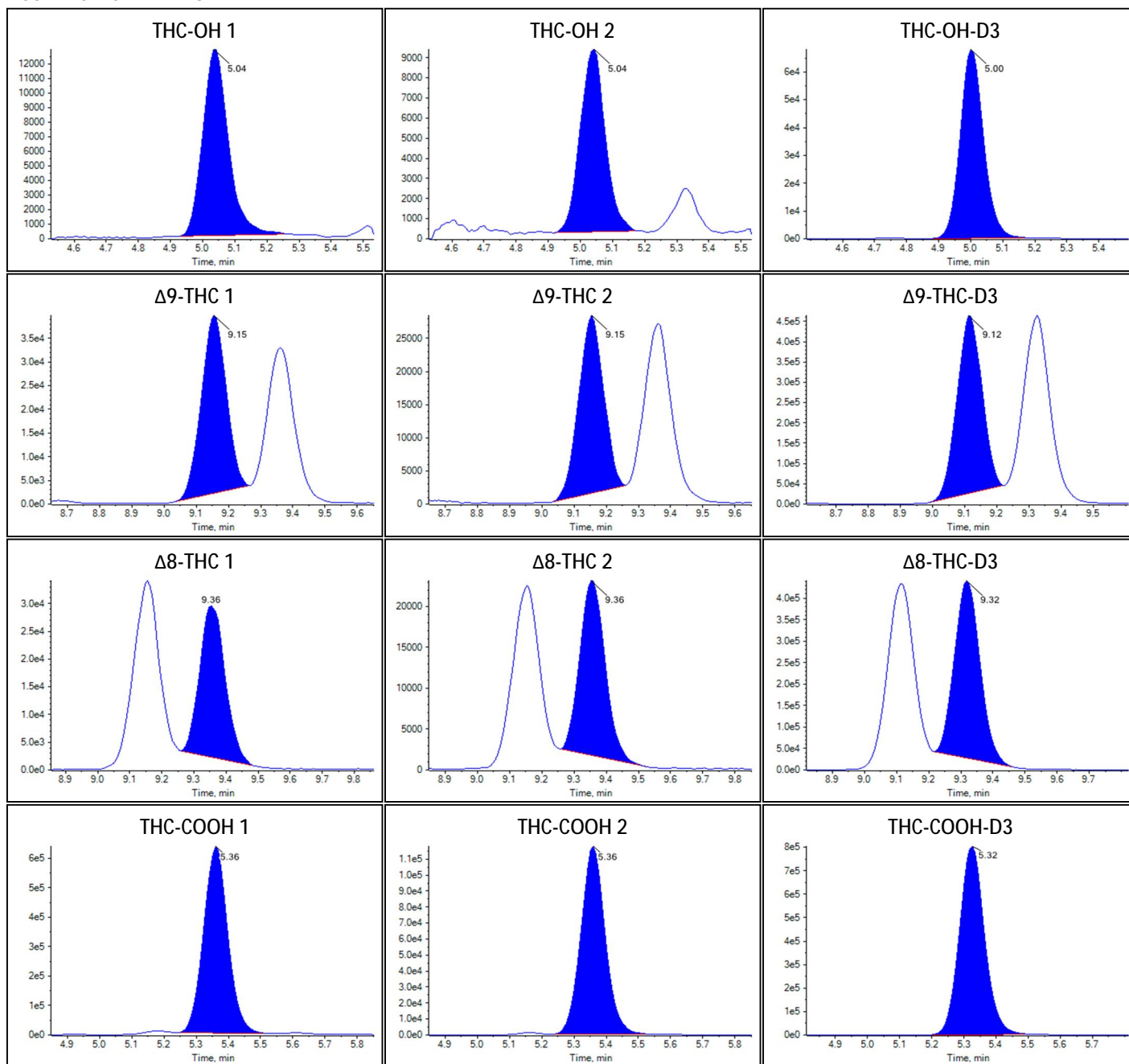
Sample Name	FX low A
Acquisition Date/Time	2022-09-13T12:53:26
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	13
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	2.059e-1		
Δ 9-THC	8.556e-2		
Δ 8-THC	6.629e-2		
THC-COOH	7.595e-1		

Identification Summary: FX low A

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.695(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.712(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.773(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.186(Not calculated)

Peak Review: FX low A





Sample Summary

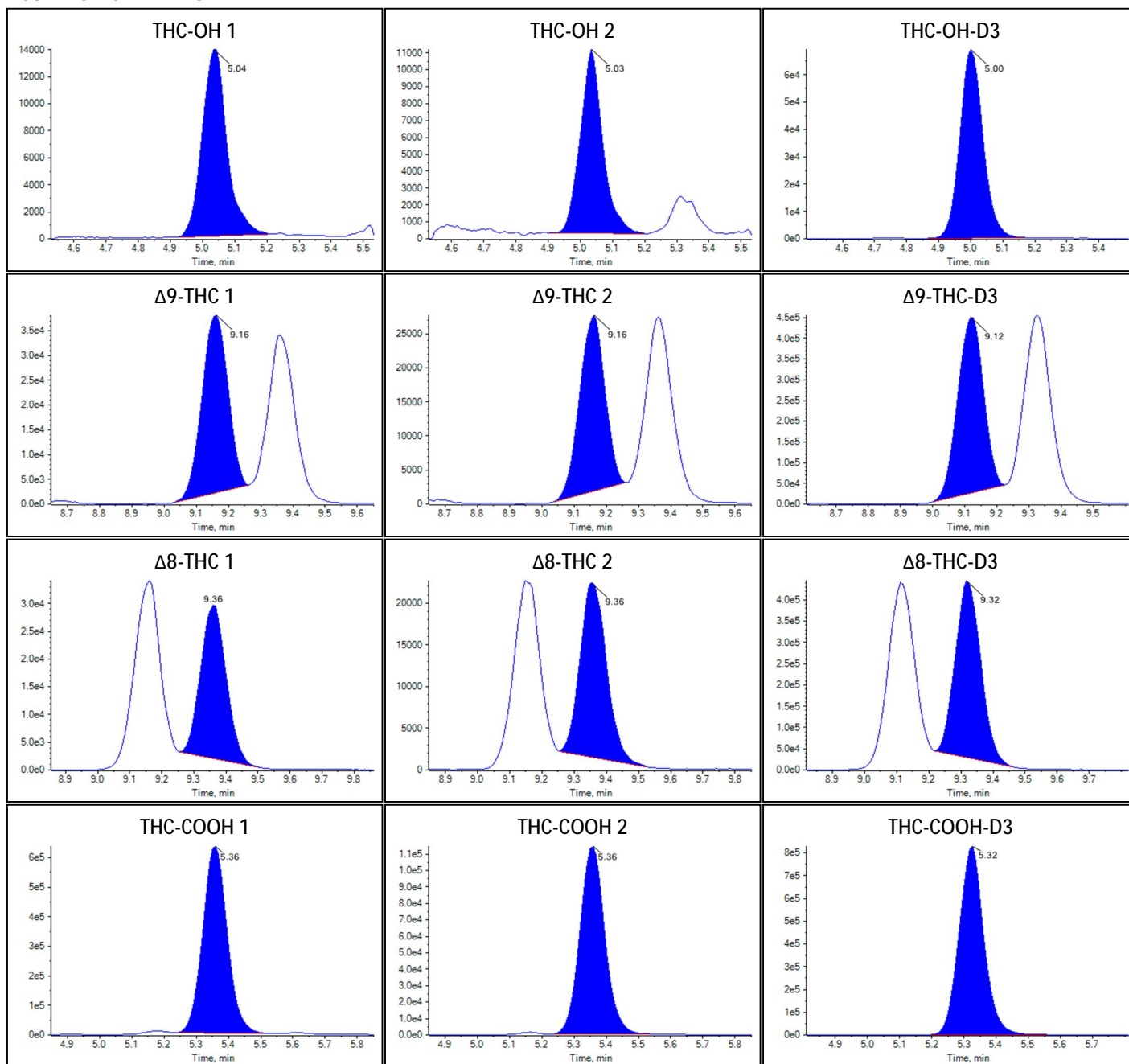
Sample Name	FX low B
Acquisition Date/Time	2022-09-13T13:07:31
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	14
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	2.131e-1		
Δ 9-THC	8.517e-2		
Δ 8-THC	6.696e-2		
THC-COOH	7.541e-1		

Identification Summary: FX low B

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.711(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.699(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.783(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.184(Not calculated)

Peak Review: FX low B





Sample Summary

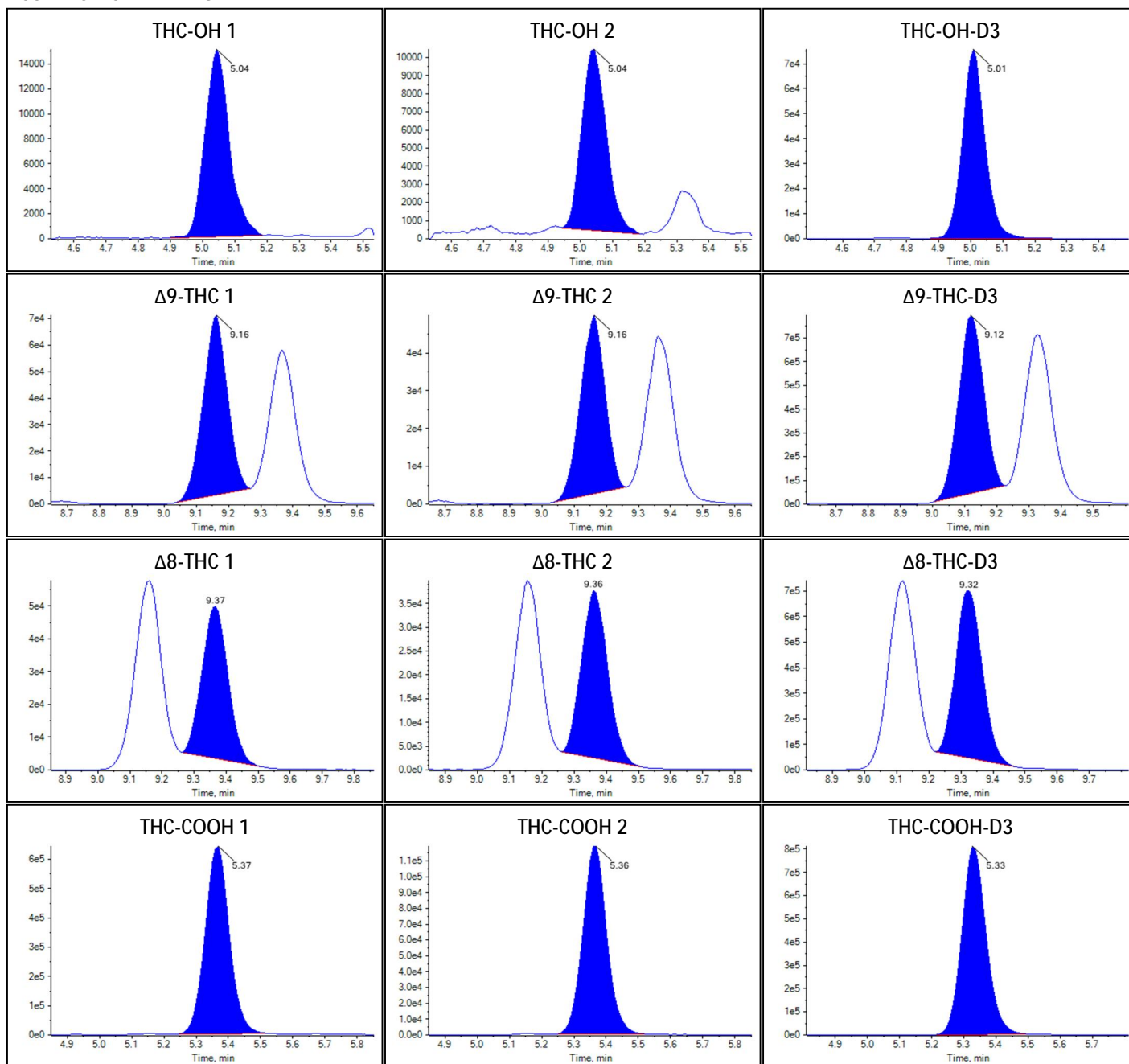
Sample Name	FW low A
Acquisition Date/Time	2022-09-13T13:21:37
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	15
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	2.147e-1		
Δ 9-THC	8.720e-2		
Δ 8-THC	6.955e-2		
THC-COOH	7.844e-1		

Identification Summary: FW low A

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.675(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.702(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.765(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.184(Not calculated)

Peak Review: FW low A





Sample Summary

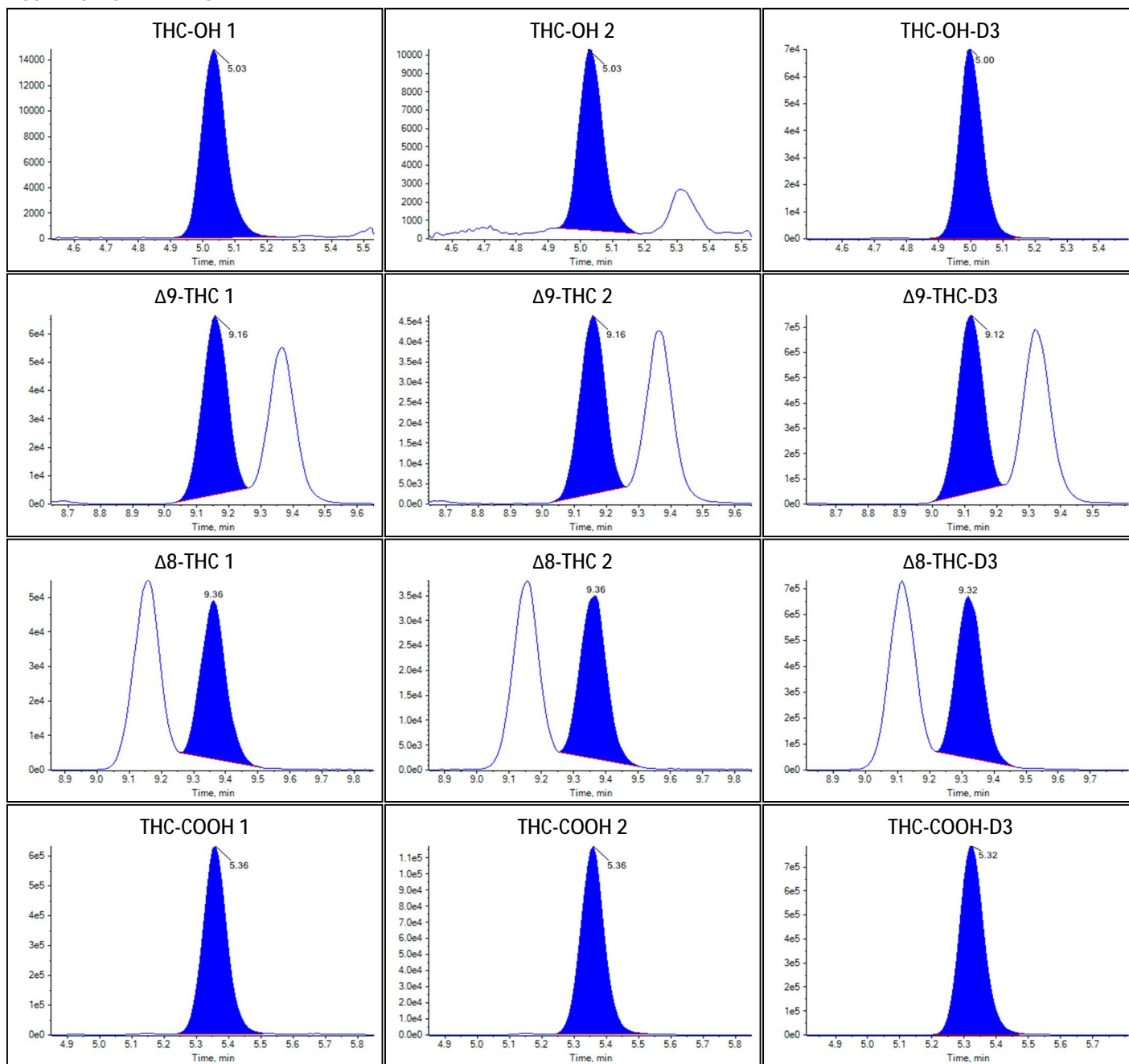
Sample Name	FW low B
Acquisition Date/Time	2022-09-13T13:35:42
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	16
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	2.227e-1		
Δ 9-THC	8.787e-2		
Δ 8-THC	6.961e-2		
THC-COOH	7.779e-1		

Identification Summary: FW low B

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.652(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.703(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.757(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.184(Not calculated)

Peak Review: FW low B





Sample Summary

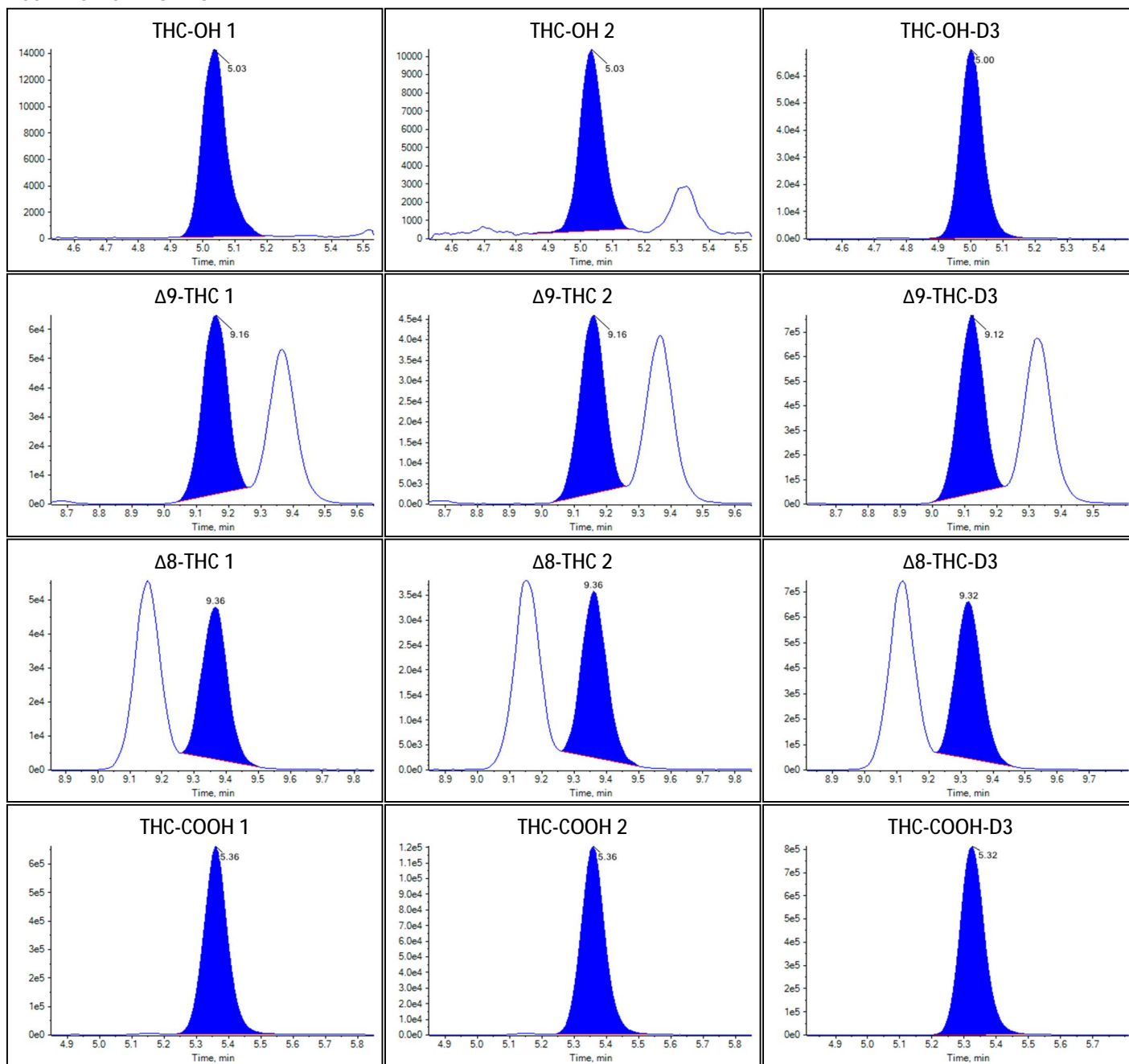
Sample Name	GB low A
Acquisition Date/Time	2022-09-13T13:49:47
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	17
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	2.197e-1		
Δ 9-THC	8.628e-2		
Δ 8-THC	7.151e-2		
THC-COOH	7.823e-1		

Identification Summary: GB low A

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.668(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.697(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.733(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.185(Not calculated)

Peak Review: GB low A





Sample Summary

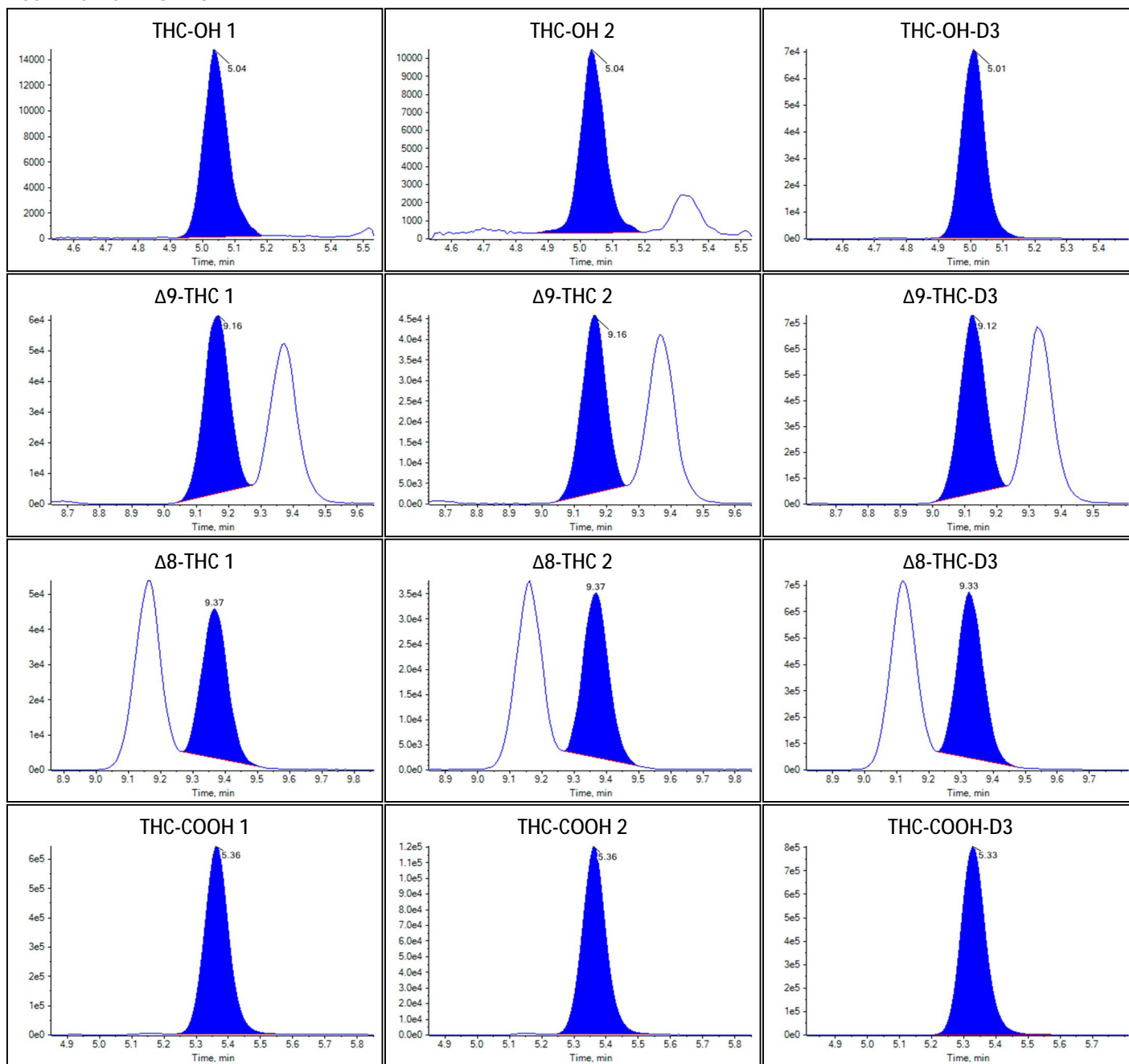
Sample Name	GB low B
Acquisition Date/Time	2022-09-13T14:03:53
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	18
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	2.142e-1		
Δ 9-THC	8.512e-2		
Δ 8-THC	6.771e-2		
THC-COOH	7.819e-1		

Identification Summary: GB low B

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.694(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.709(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.763(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.184(Not calculated)

Peak Review: GB low B





Sample Summary

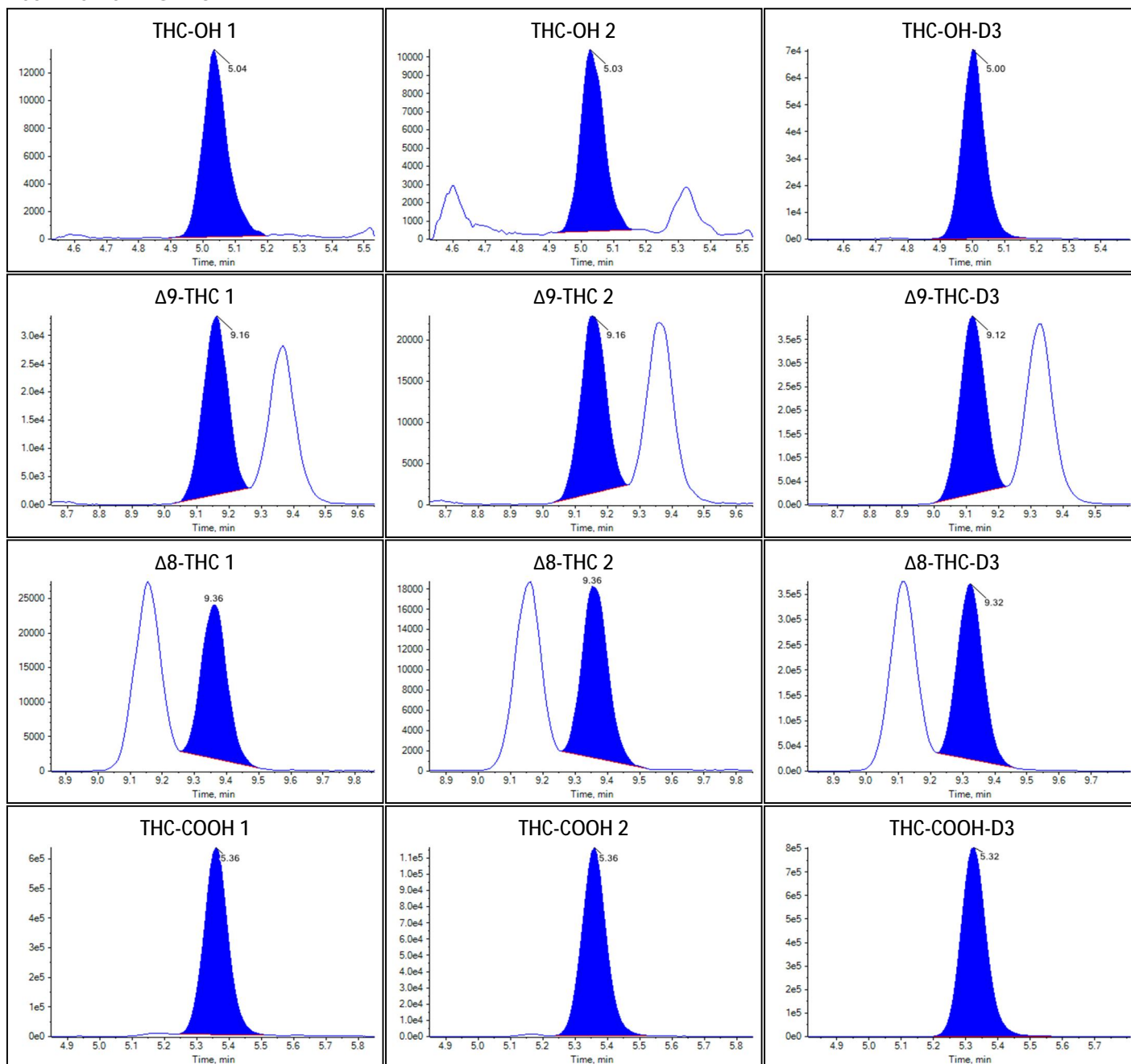
Sample Name	GA low A
Acquisition Date/Time	2022-09-13T14:17:58
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	19
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	2.067e-1		
Δ 9-THC	8.248e-2		
Δ 8-THC	6.468e-2		
THC-COOH	7.468e-1		

Identification Summary: GA low A

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.714(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.707(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.772(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.185(Not calculated)

Peak Review: GA low A





Sample Summary

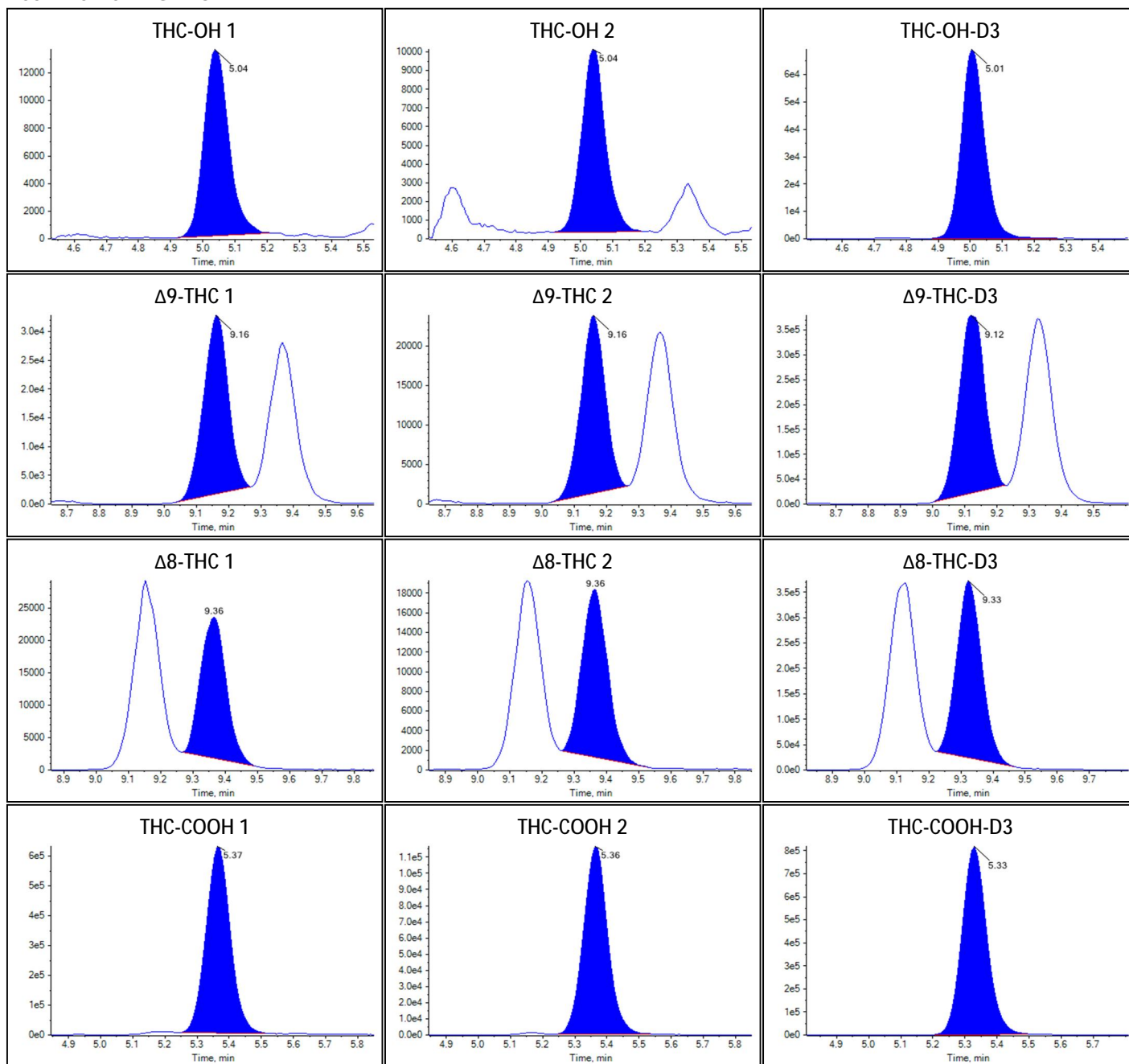
Sample Name	GA low B
Acquisition Date/Time	2022-09-13T14:32:03
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	20
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	2.073e-1		
Δ 9-THC	8.199e-2		
Δ 8-THC	6.365e-2		
THC-COOH	7.475e-1		

Identification Summary: GA low B

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.701(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.717(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.796(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.185(Not calculated)

Peak Review: GA low B





Sample Summary

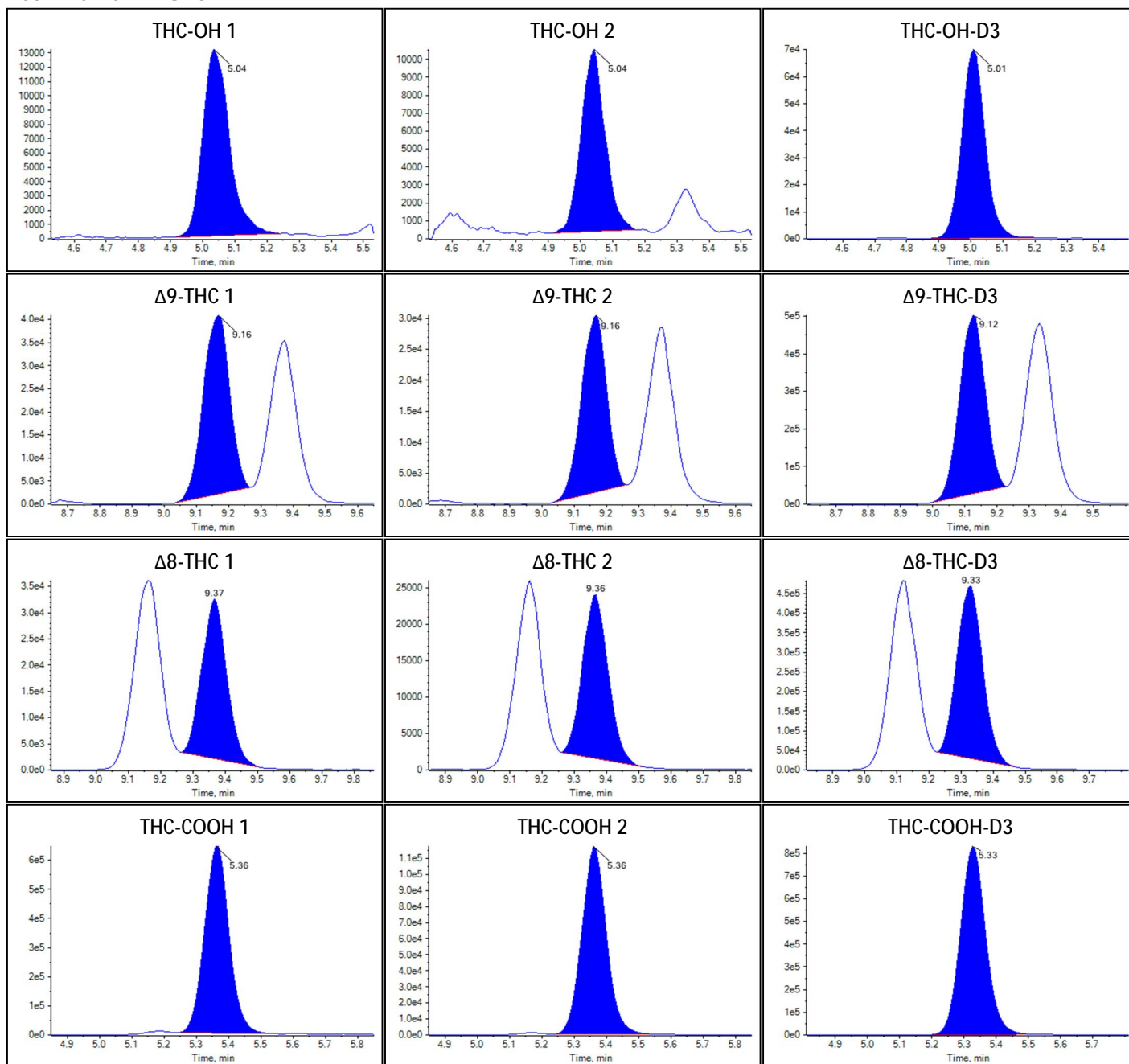
Sample Name	FU low A
Acquisition Date/Time	2022-09-13T14:46:06
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	21
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	2.117e-1		
Δ 9-THC	8.395e-2		
Δ 8-THC	6.633e-2		
THC-COOH	7.479e-1		

Identification Summary: FU low A

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.696(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.705(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.763(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.182(Not calculated)

Peak Review: FU low A





Sample Summary

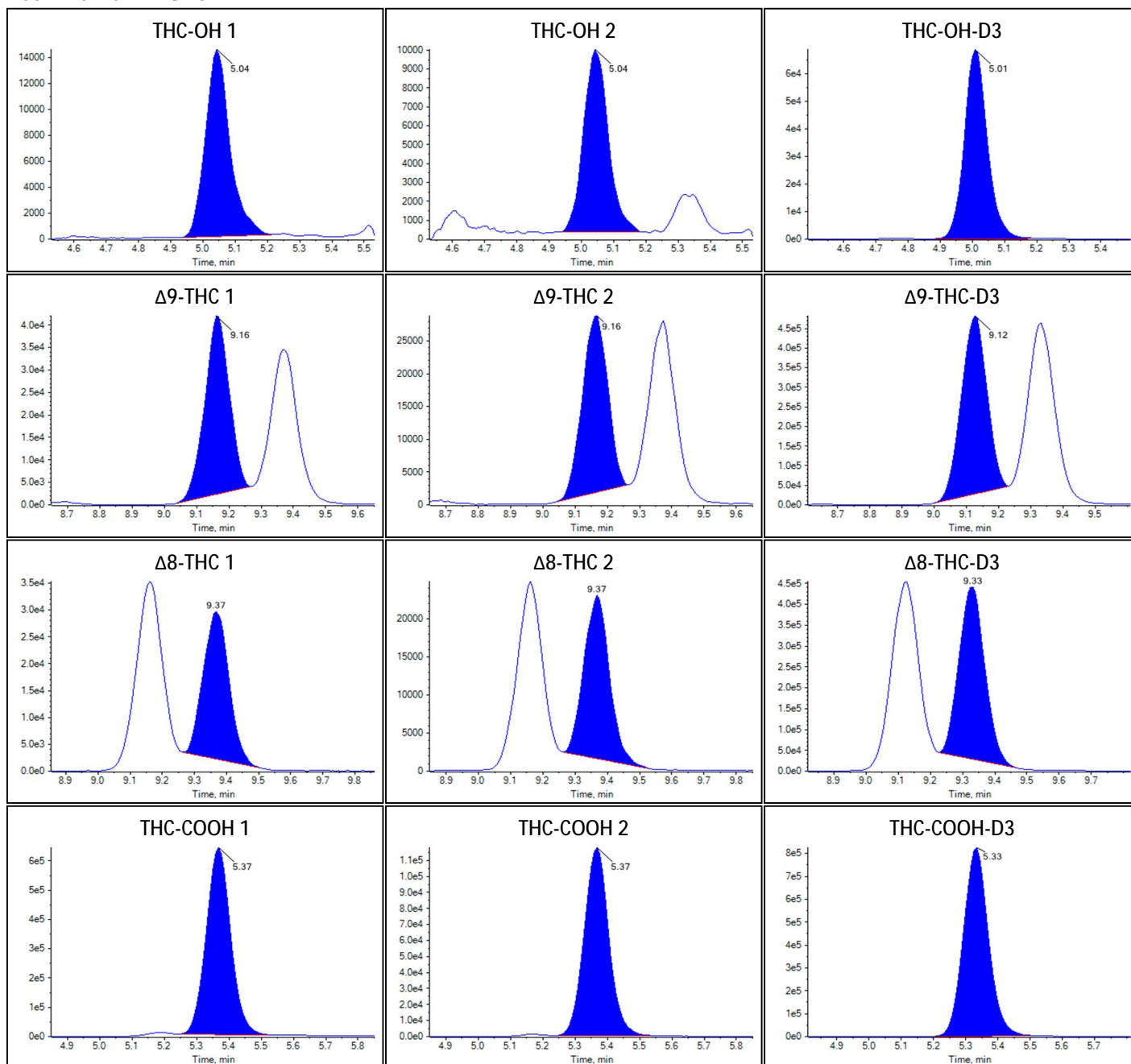
Sample Name	FU low B
Acquisition Date/Time	2022-09-13T15:00:11
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	22
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	2.235e-1		
Δ 9-THC	8.329e-2		
Δ 8-THC	6.630e-2		
THC-COOH	7.555e-1		

Identification Summary: FU low B

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.675(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.708(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.770(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.185(Not calculated)

Peak Review: FU low B





Sample Summary

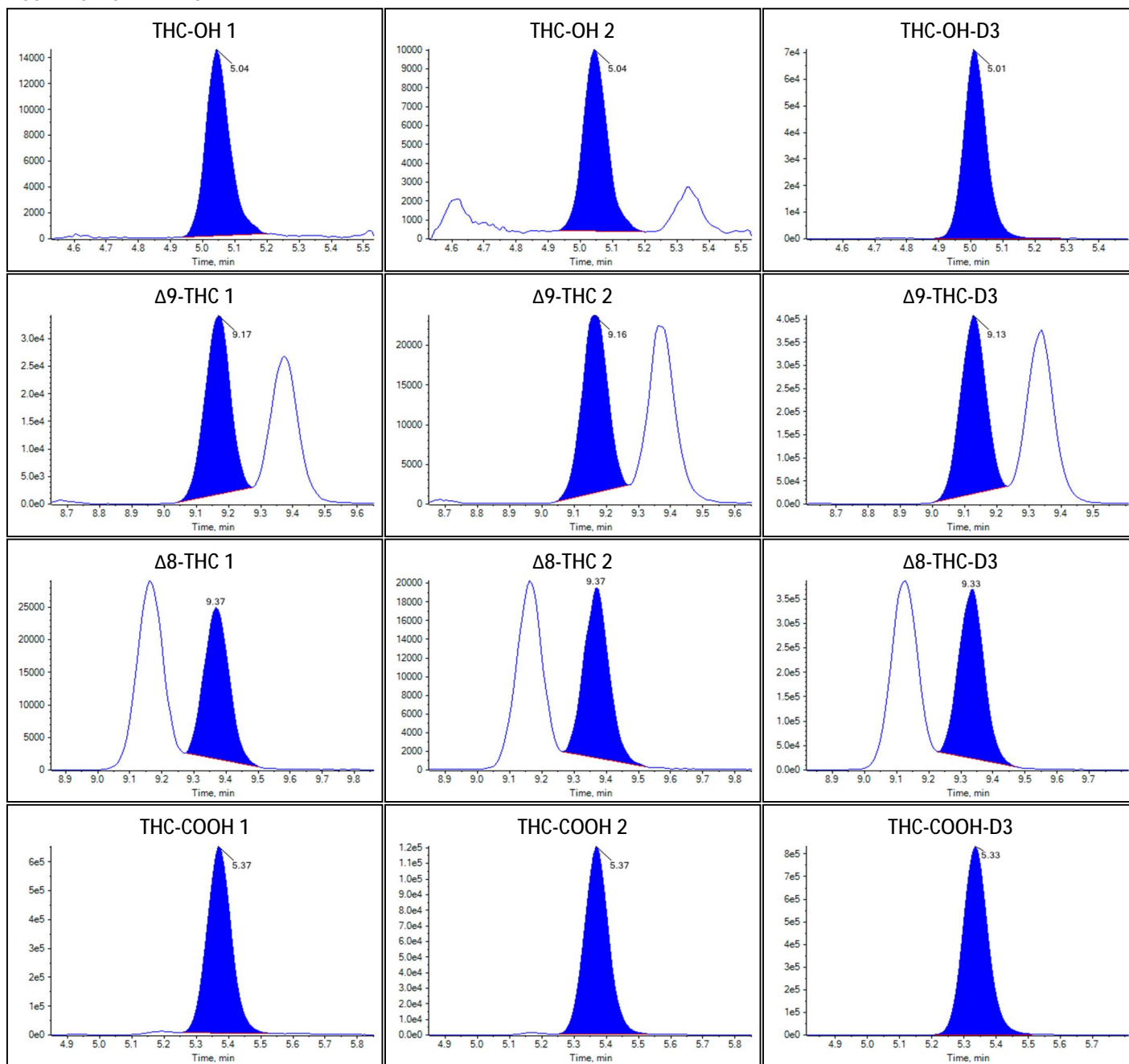
Sample Name	FT low A
Acquisition Date/Time	2022-09-13T15:14:14
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	23
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	2.116e-1		
Δ 9-THC	8.431e-2		
Δ 8-THC	6.666e-2		
THC-COOH	7.533e-1		

Identification Summary: FT low A

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.681(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.706(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.775(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.185(Not calculated)

Peak Review: FT low A





Sample Summary

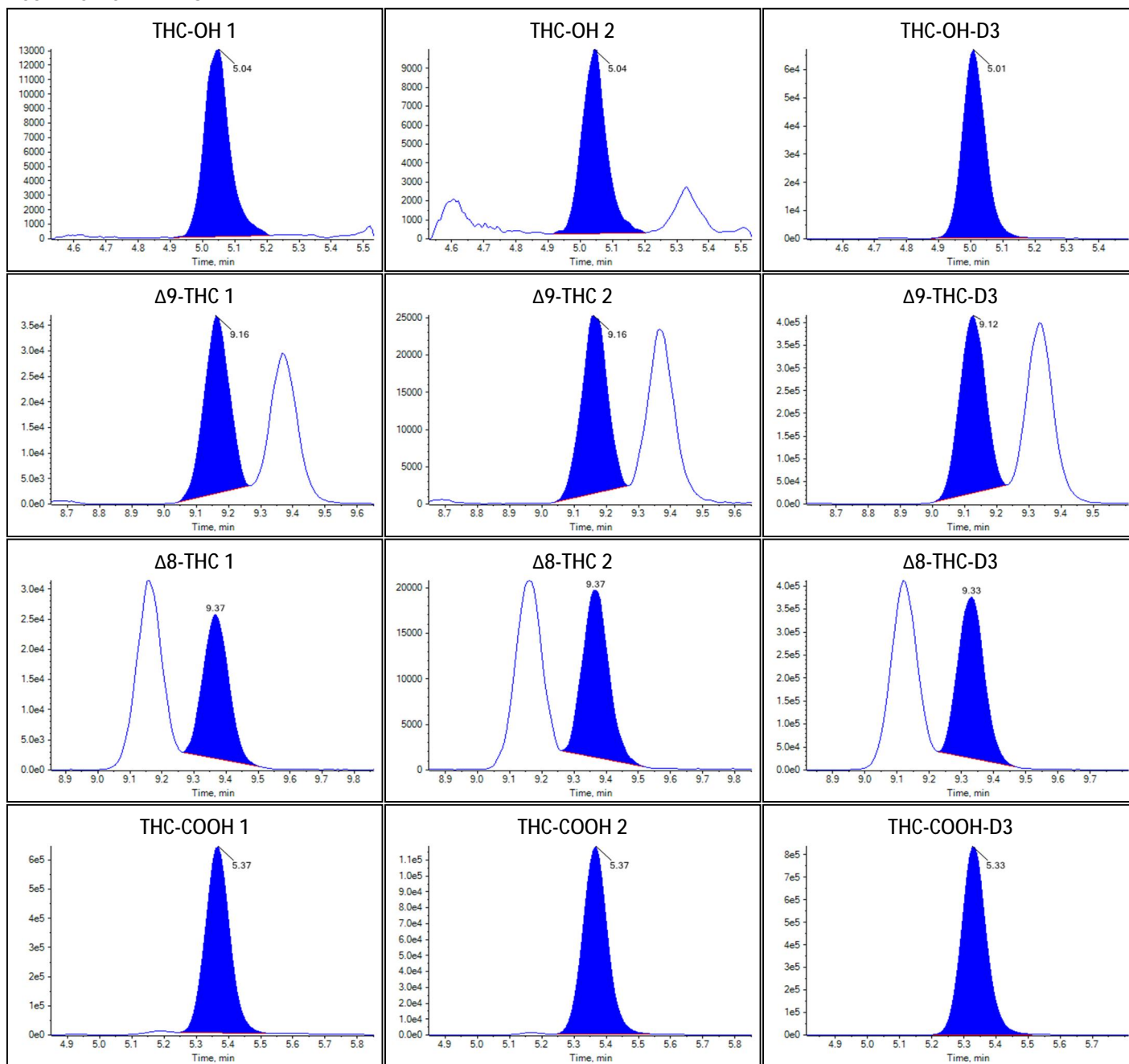
Sample Name	FT low B
Acquisition Date/Time	2022-09-13T15:28:16
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	24
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	2.154e-1		
Δ 9-THC	8.629e-2		
Δ 8-THC	6.648e-2		
THC-COOH	7.454e-1		

Identification Summary: FT low B

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.717(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.715(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.785(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.187(Not calculated)

Peak Review: FT low B





Sample Summary

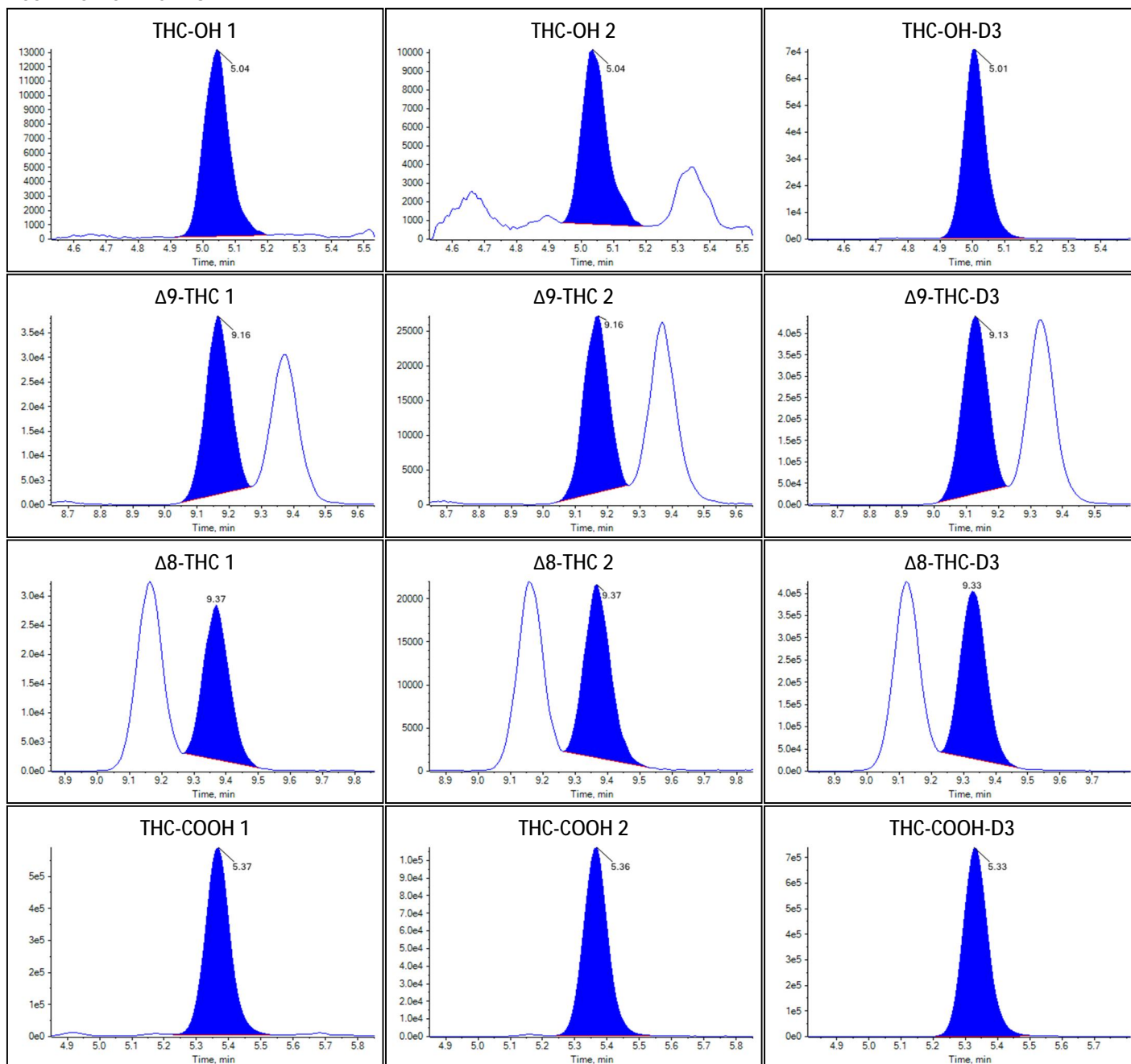
Sample Name	CY low A
Acquisition Date/Time	2022-09-13T15:42:22
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	25
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	2.102e-1		
Δ 9-THC	8.510e-2		
Δ 8-THC	6.870e-2		
THC-COOH	7.849e-1		

Identification Summary: CY low A

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.737(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.712(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.773(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.180(Not calculated)

Peak Review: CY low A





Sample Summary

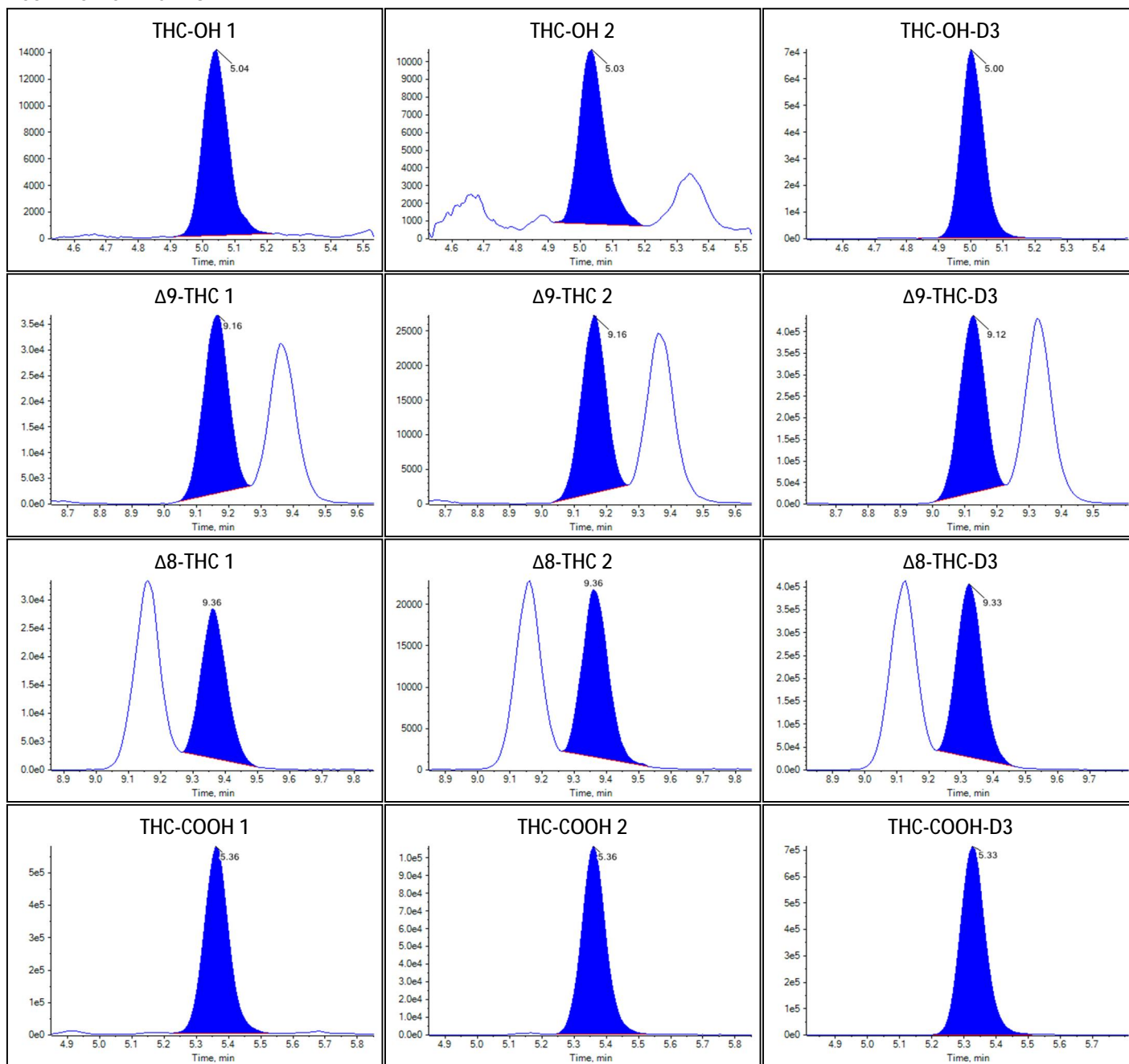
Sample Name	CY low B
Acquisition Date/Time	2022-09-13T15:56:27
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	26
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	2.181e-1		
Δ 9-THC	8.404e-2		
Δ 8-THC	6.812e-2		
THC-COOH	7.903e-1		

Identification Summary: CY low B

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.730(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.729(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.789(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.181(Not calculated)

Peak Review: CY low B





Sample Summary

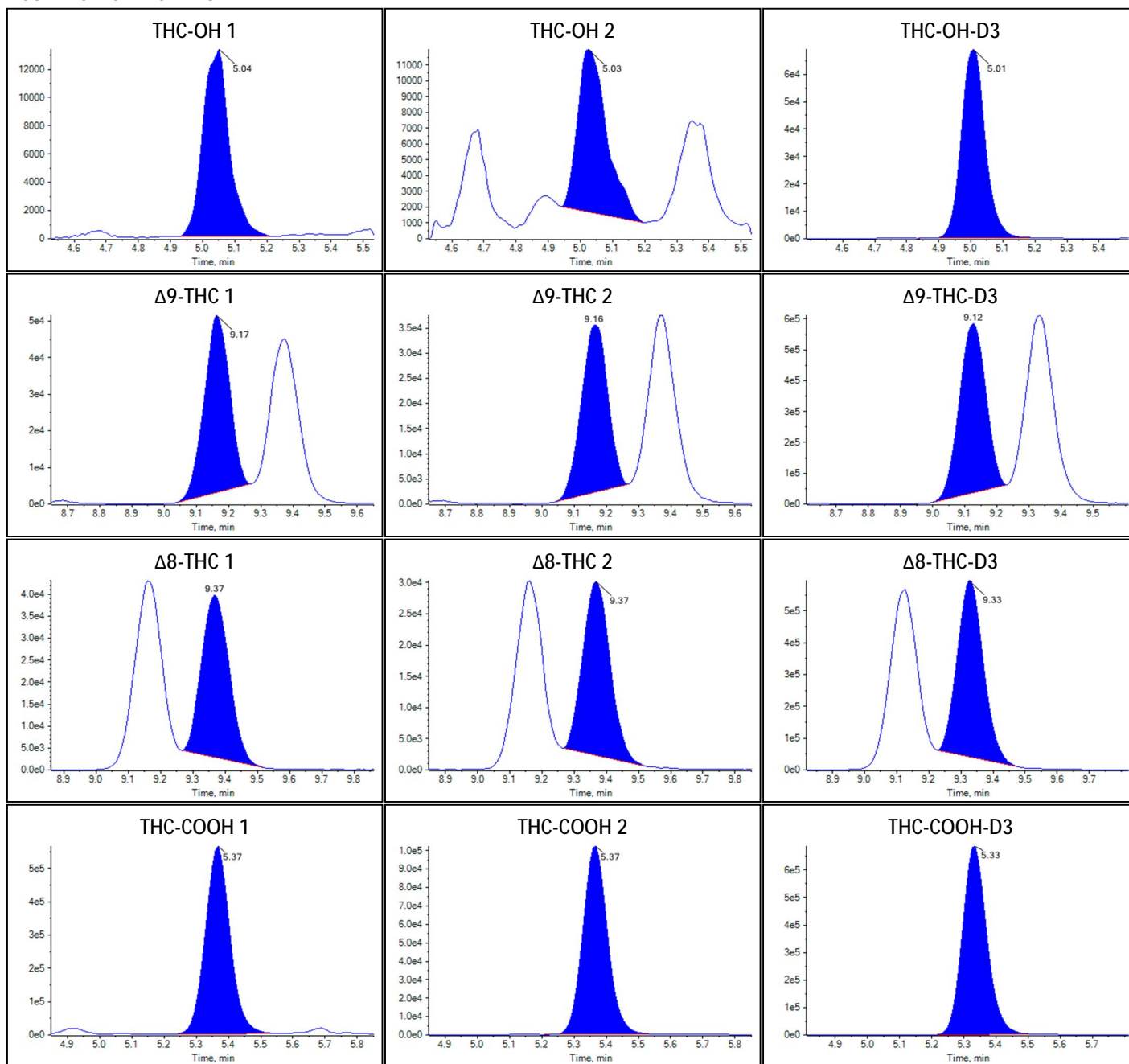
Sample Name	CW low A
Acquisition Date/Time	2022-09-13T16:10:33
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	27
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	2.123e-1		
Δ 9-THC	8.384e-2		
Δ 8-THC	6.986e-2		
THC-COOH	8.312e-1		

Identification Summary: CW low A

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.862(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.721(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.754(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.181(Not calculated)

Peak Review: CW low A





Sample Summary

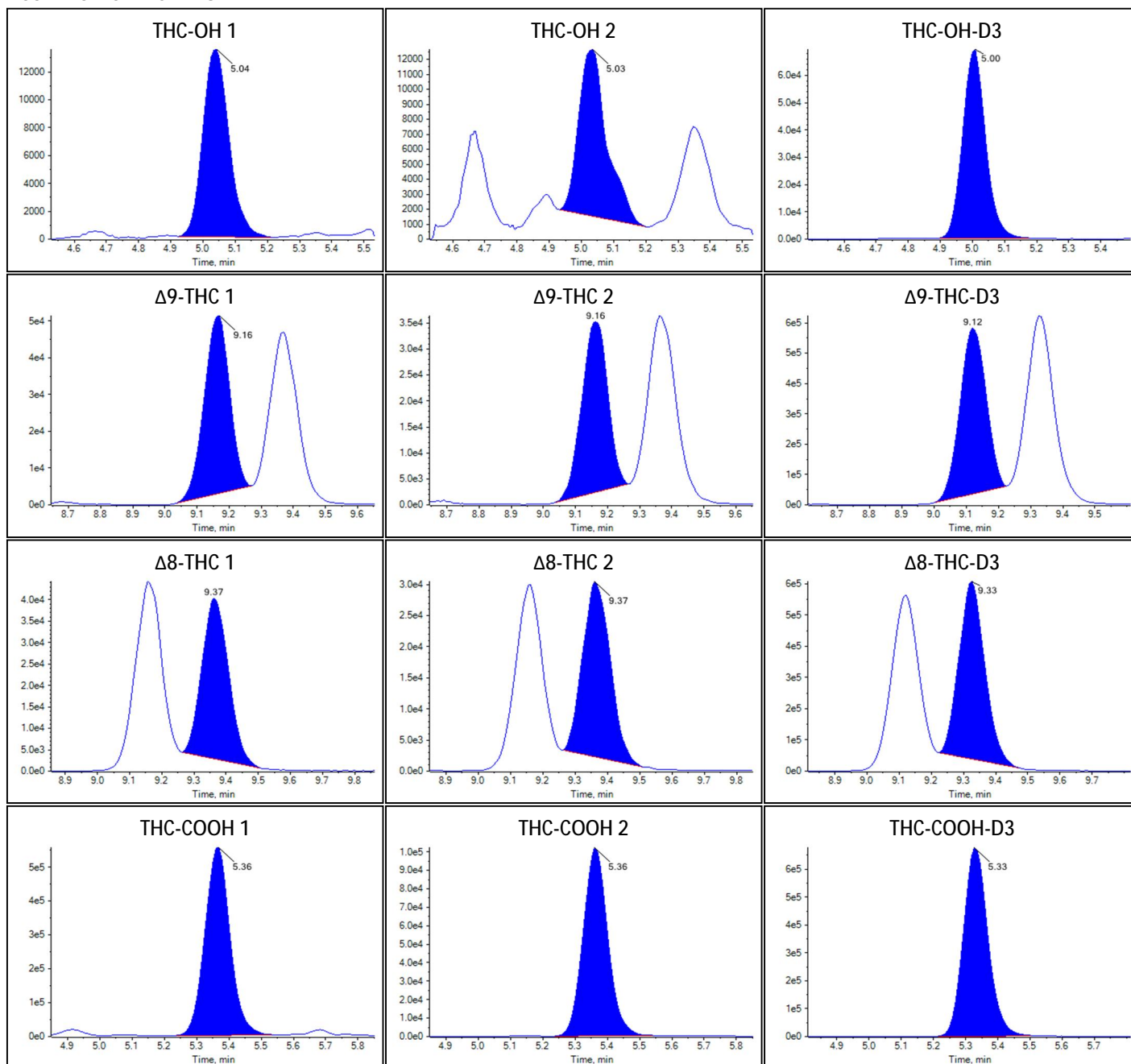
Sample Name	CW low B
Acquisition Date/Time	2022-09-13T16:24:38
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	28
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	2.191e-1		
Δ 9-THC	8.649e-2		
Δ 8-THC	6.808e-2		
THC-COOH	8.385e-1		

Identification Summary: CW low B

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.891(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.695(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.775(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.180(Not calculated)

Peak Review: CW low B





Sample Summary

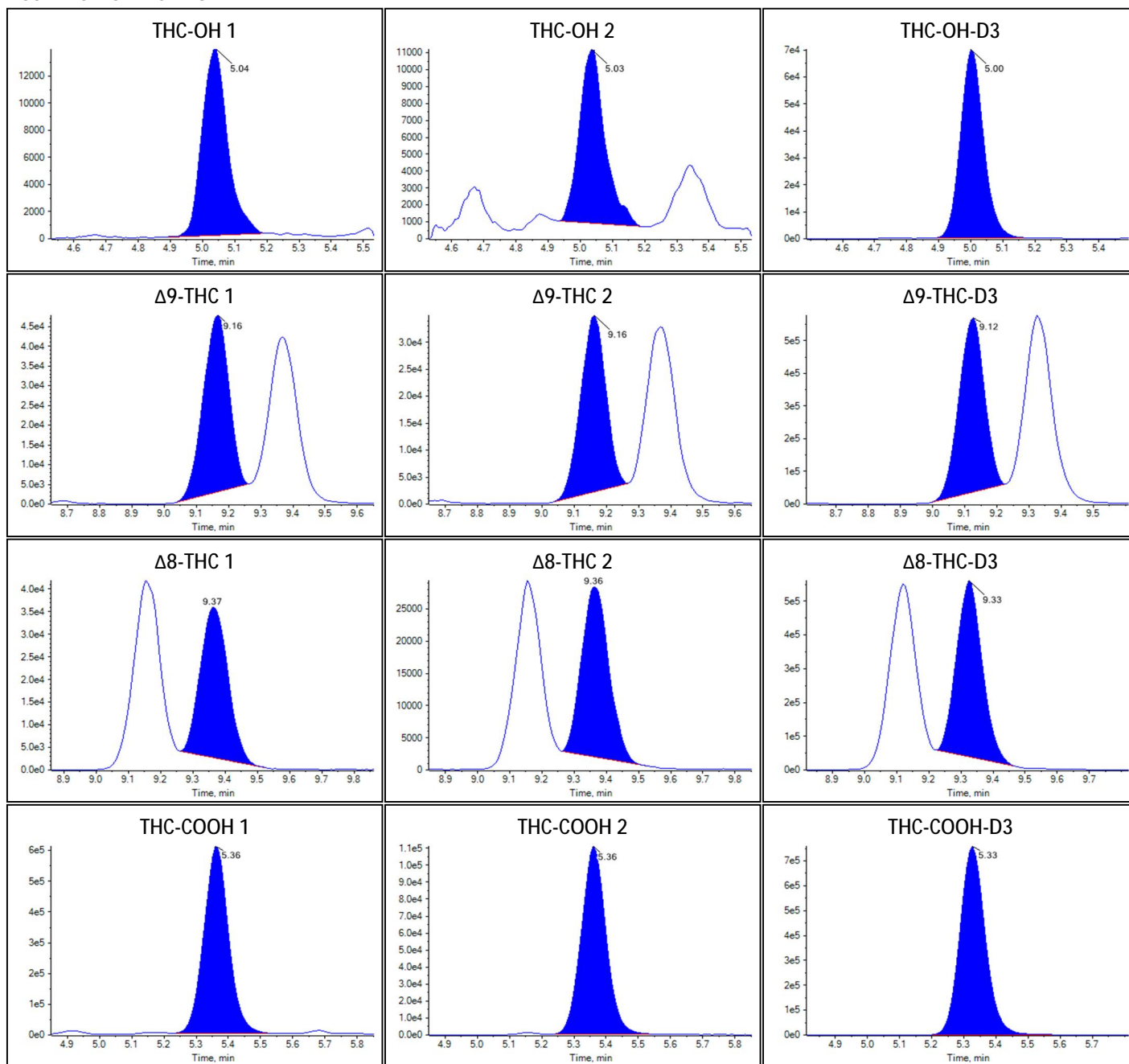
Sample Name	CV low A
Acquisition Date/Time	2022-09-13T16:38:43
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	29
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	2.170e-1		
Δ 9-THC	8.467e-2		
Δ 8-THC	6.851e-2		
THC-COOH	7.840e-1		

Identification Summary: CV low A

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.749(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.718(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.789(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.182(Not calculated)

Peak Review: CV low A





Sample Summary

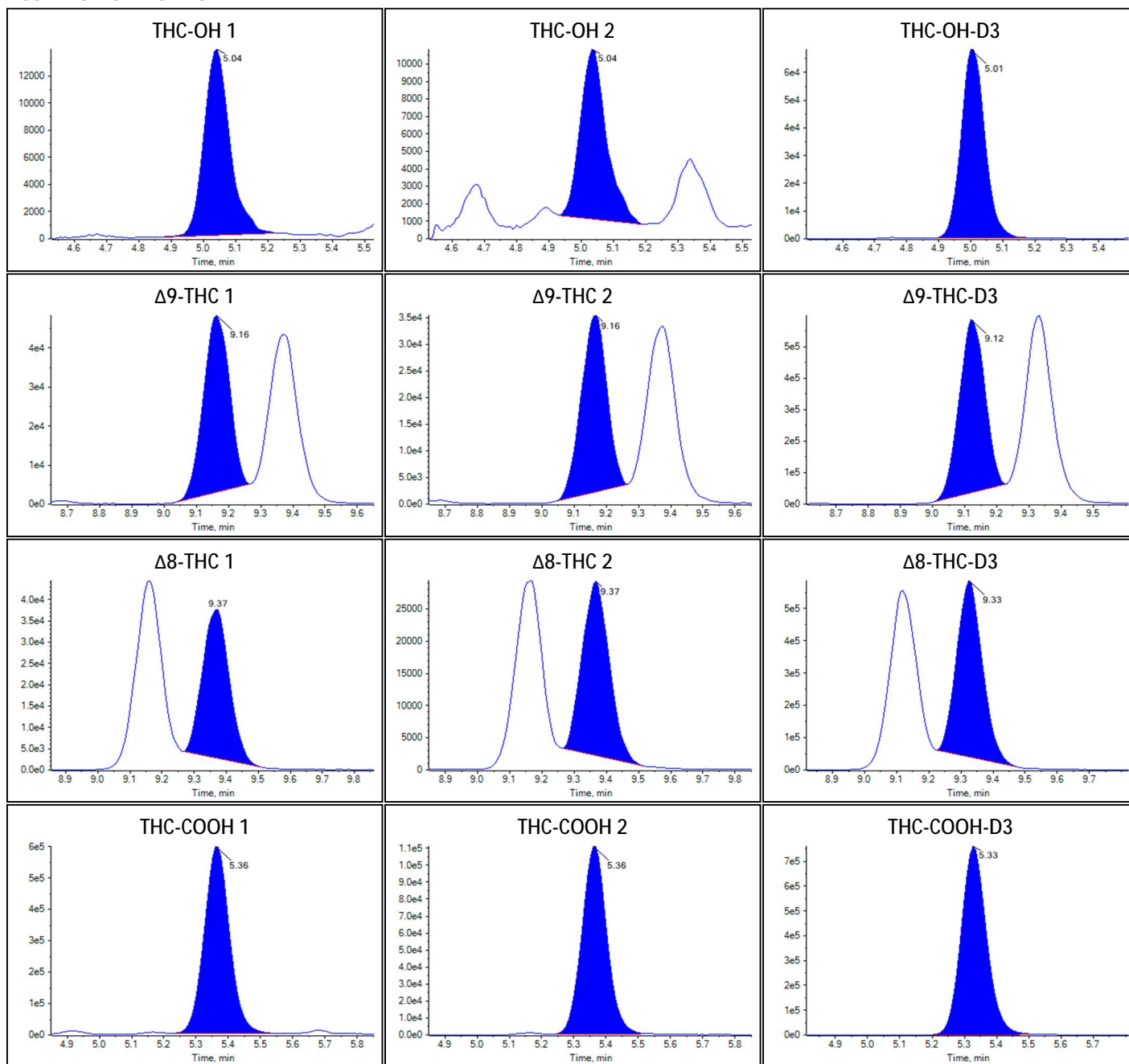
Sample Name	CV low B
Acquisition Date/Time	2022-09-13T16:52:48
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	30
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	2.178e-1		
Δ 9-THC	8.370e-2		
Δ 8-THC	6.695e-2		
THC-COOH	7.816e-1		

Identification Summary: CV low B

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.717(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.723(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.780(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.183(Not calculated)

Peak Review: CV low B





Sample Summary

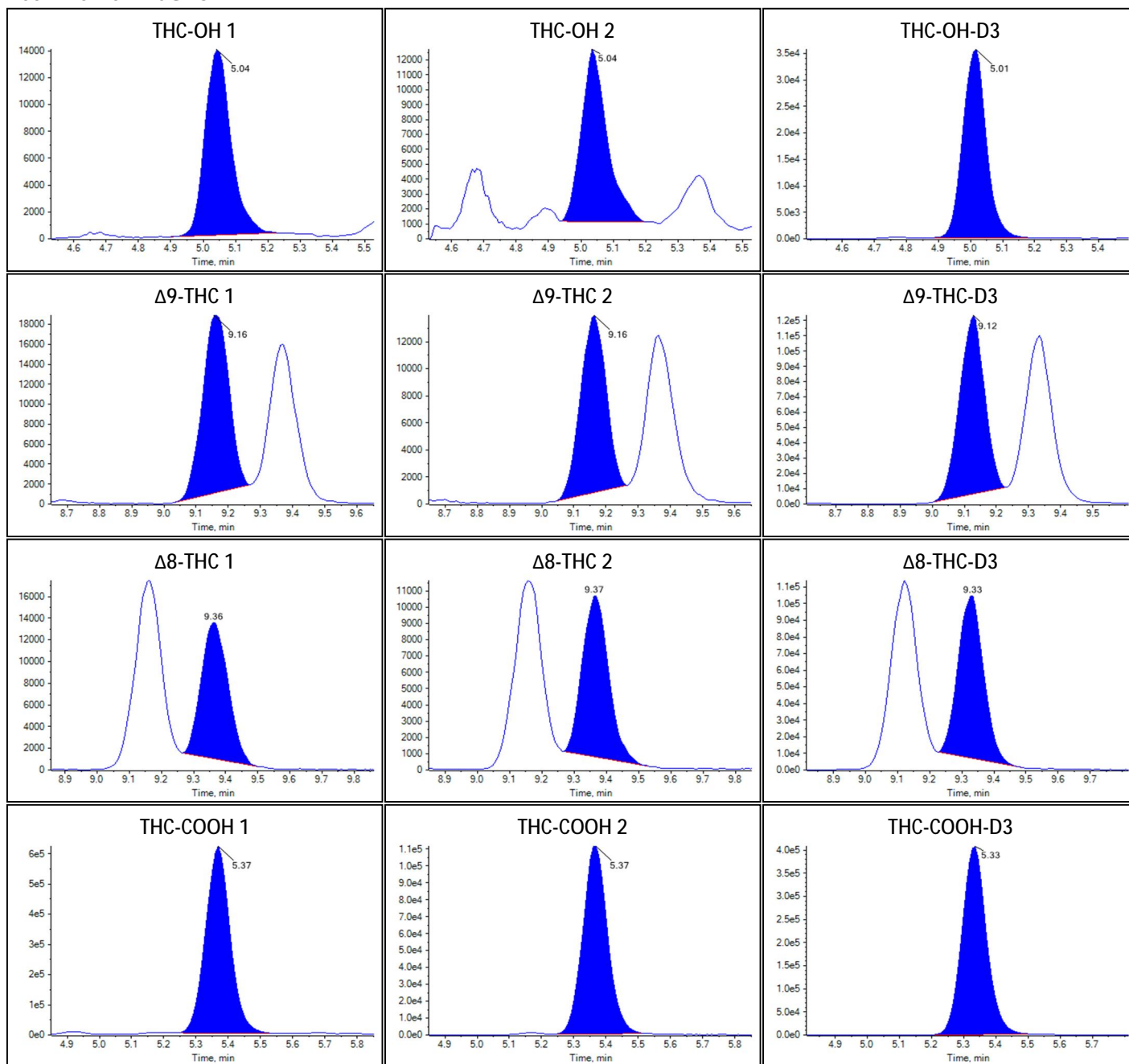
Sample Name	CU low A
Acquisition Date/Time	2022-09-13T17:06:54
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	31
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	4.297e-1		
Δ 9-THC	1.629e-1		
Δ 8-THC	1.352e-1		
THC-COOH	1.517e0		

Identification Summary: CU low A

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.827(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.706(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.768(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.182(Not calculated)

Peak Review: CU low A





Sample Summary

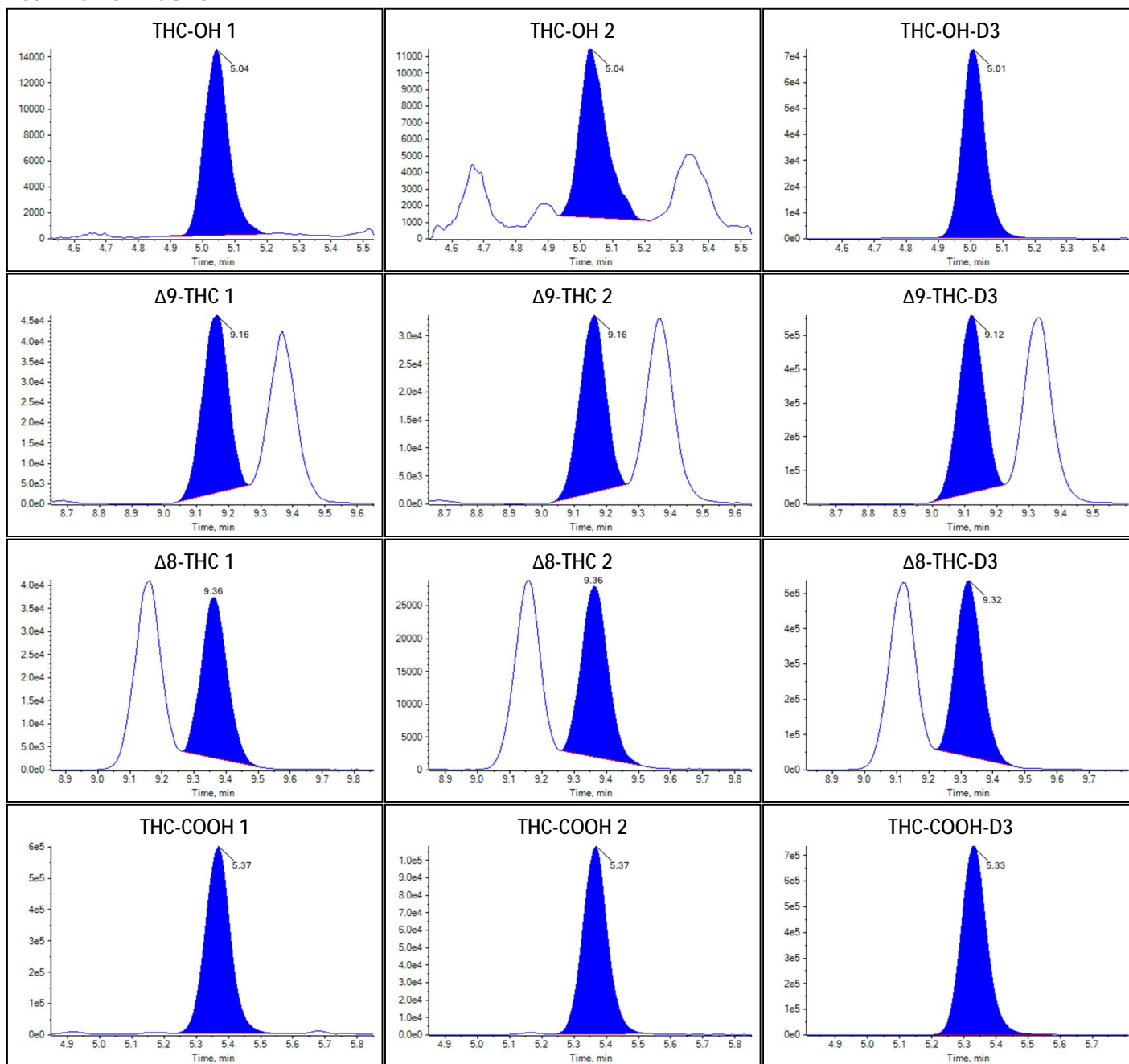
Sample Name	CU low B
Acquisition Date/Time	2022-09-13T17:20:59
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	32
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	2.104e-1		
Δ 9-THC	8.403e-2		
Δ 8-THC	6.928e-2		
THC-COOH	7.883e-1		

Identification Summary: CU low B

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.777(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.721(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.768(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.179(Not calculated)

Peak Review: CU low B





Sample Summary

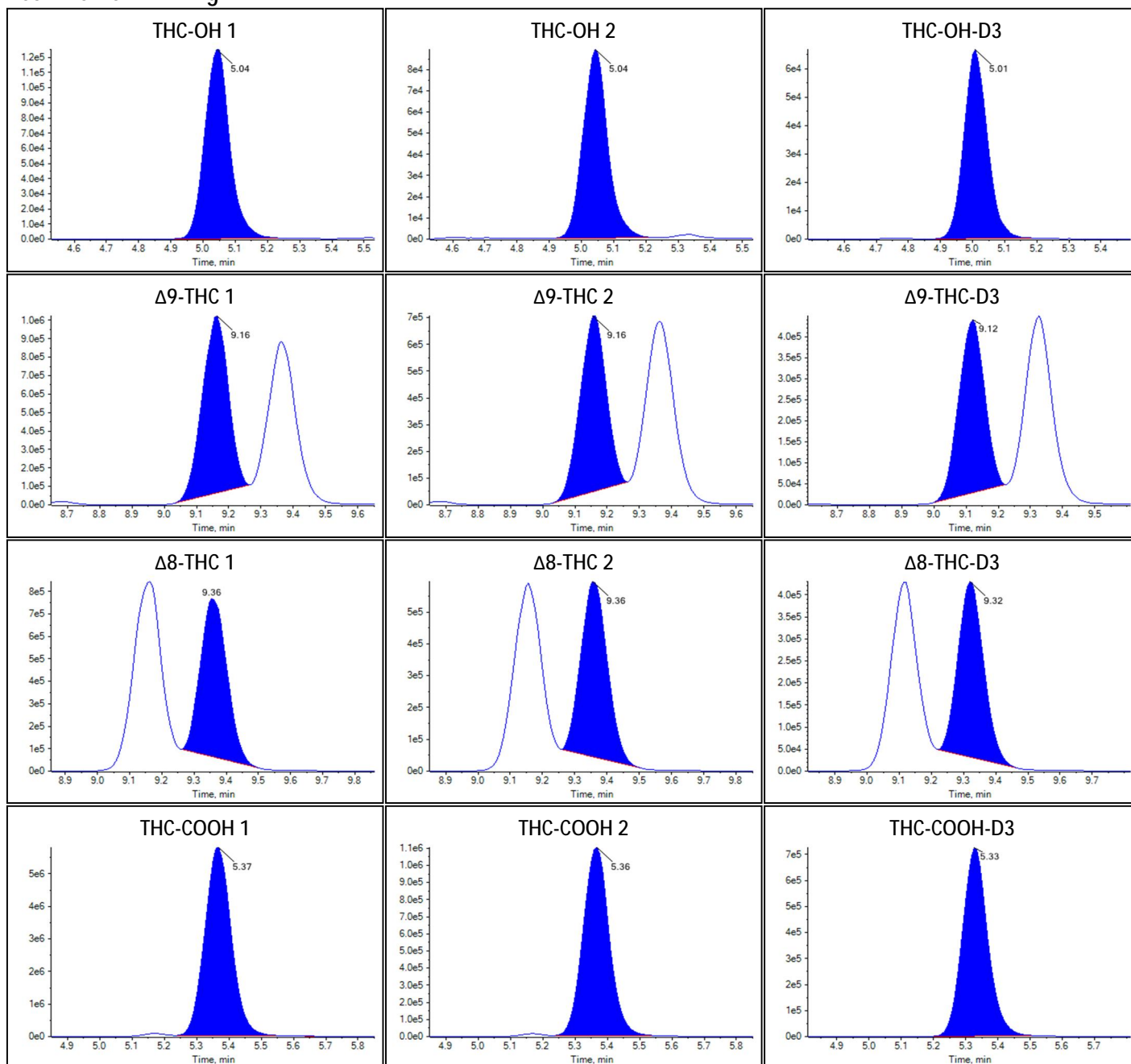
Sample Name	FX high A
Acquisition Date/Time	2022-09-13T17:35:04
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	33
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	1.996e0		
Δ 9-THC	2.353e0		
Δ 8-THC	1.836e0		
THC-COOH	8.343e0		

Identification Summary: FX high A

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.703(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.688(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.775(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.188(Not calculated)

Peak Review: FX high A





Sample Summary

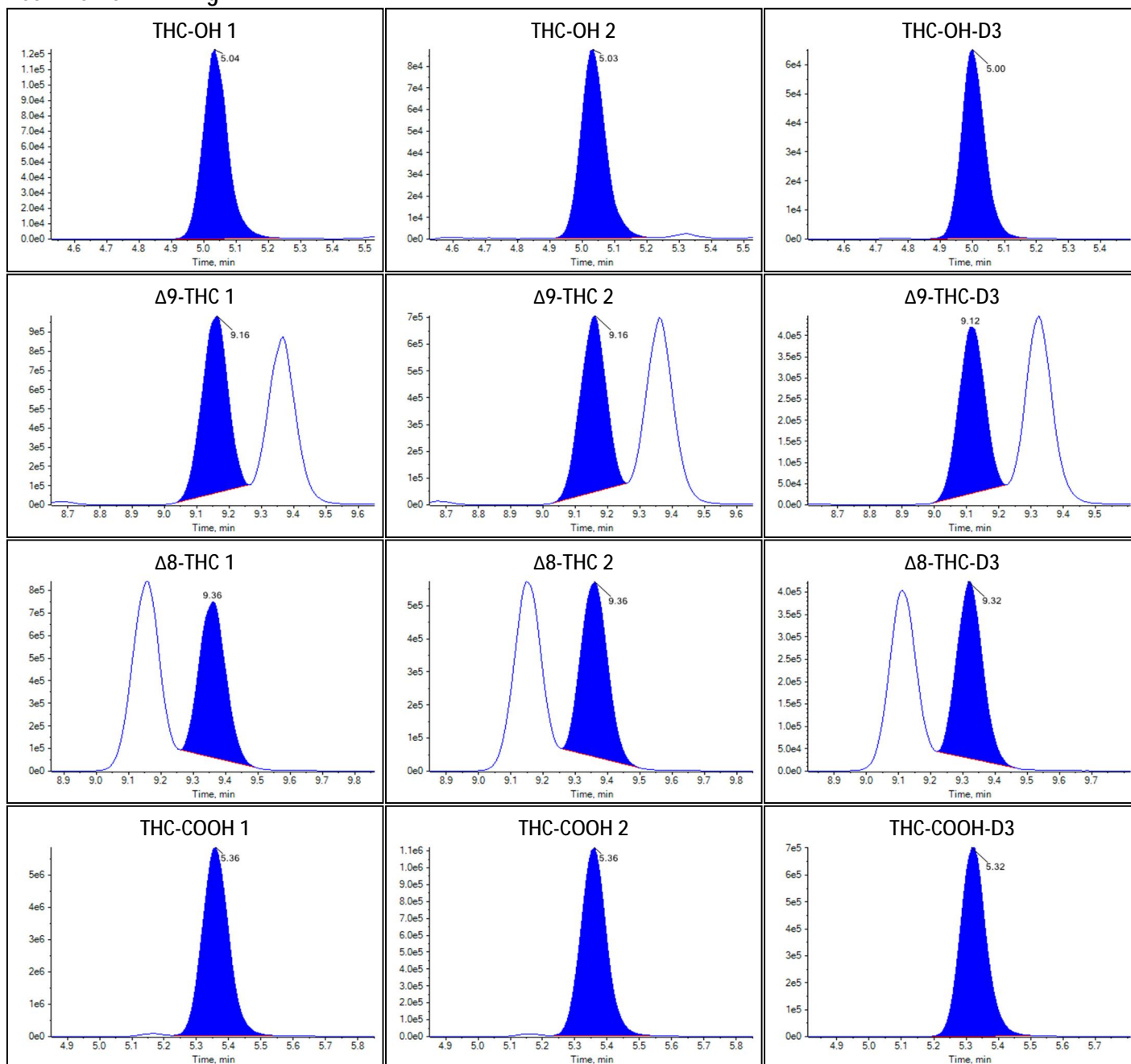
Sample Name	FX high B
Acquisition Date/Time	2022-09-13T17:49:10
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	34
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	1.979e0		
Δ 9-THC	2.340e0		
Δ 8-THC	1.795e0		
THC-COOH	8.410e0		

Identification Summary: FX high B

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.721(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.704(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.771(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.187(Not calculated)

Peak Review: FX high B





Sample Summary

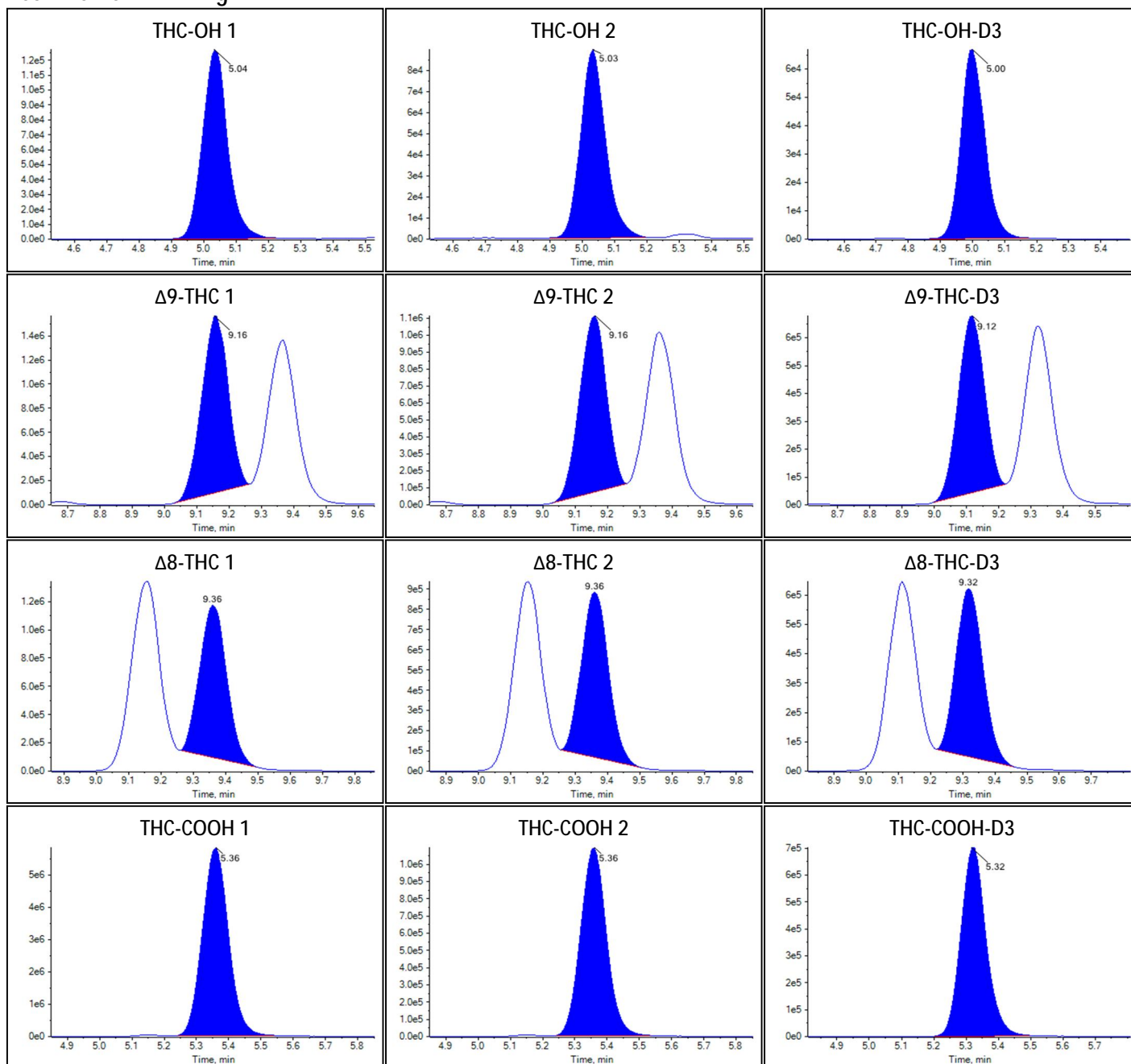
Sample Name	FW high A
Acquisition Date/Time	2022-09-13T18:03:12
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	35
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	1.978e0		
Δ 9-THC	2.319e0		
Δ 8-THC	1.877e0		
THC-COOH	8.647e0		

Identification Summary: FW high A

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.700(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.715(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.762(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.186(Not calculated)

Peak Review: FW high A





Sample Summary

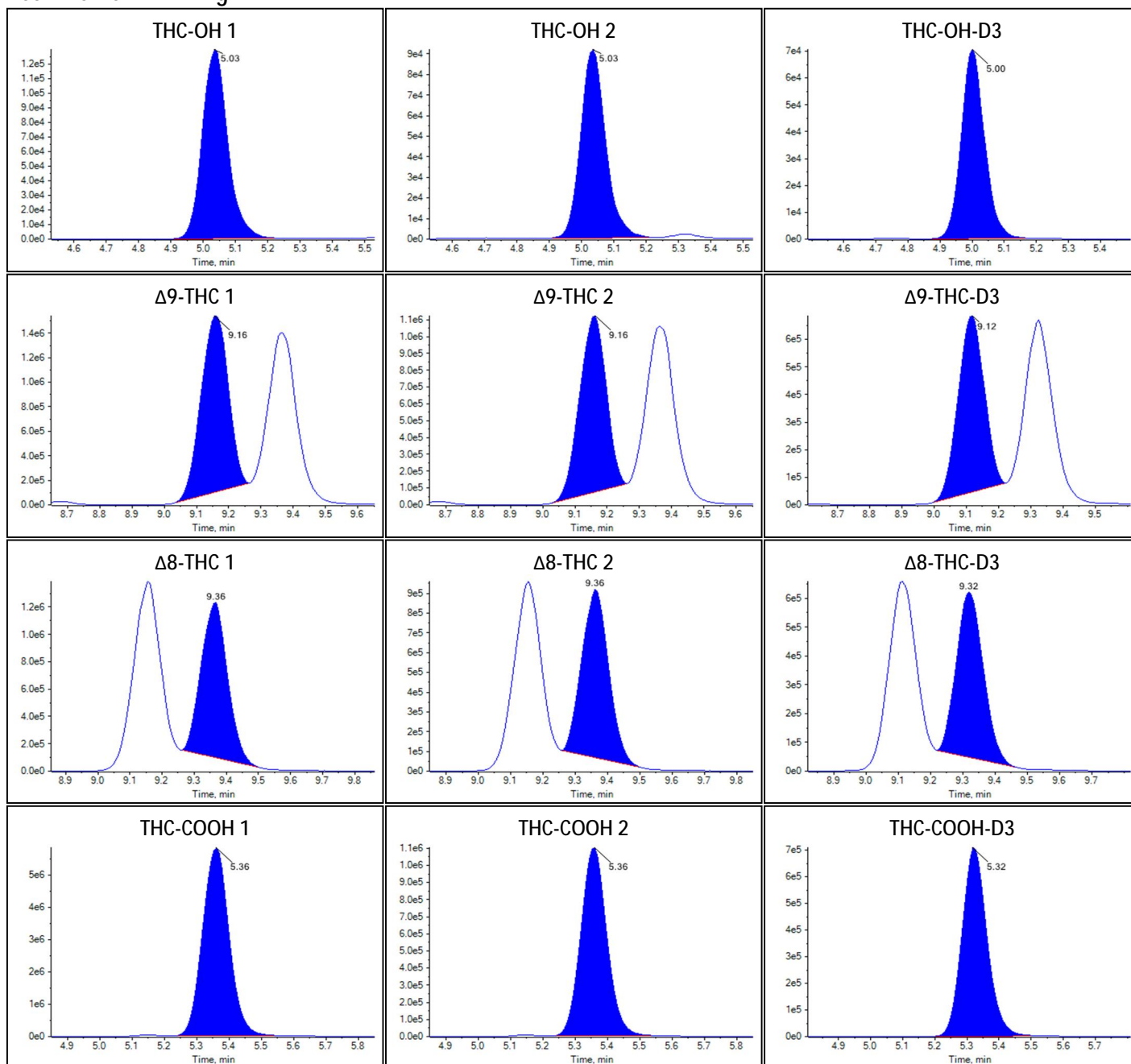
Sample Name	FW high B
Acquisition Date/Time	2022-09-13T18:17:14
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	36
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	1.989e0		
Δ 9-THC	2.341e0		
Δ 8-THC	1.933e0		
THC-COOH	8.653e0		

Identification Summary: FW high B

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.695(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.711(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.764(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.186(Not calculated)

Peak Review: FW high B





Sample Summary

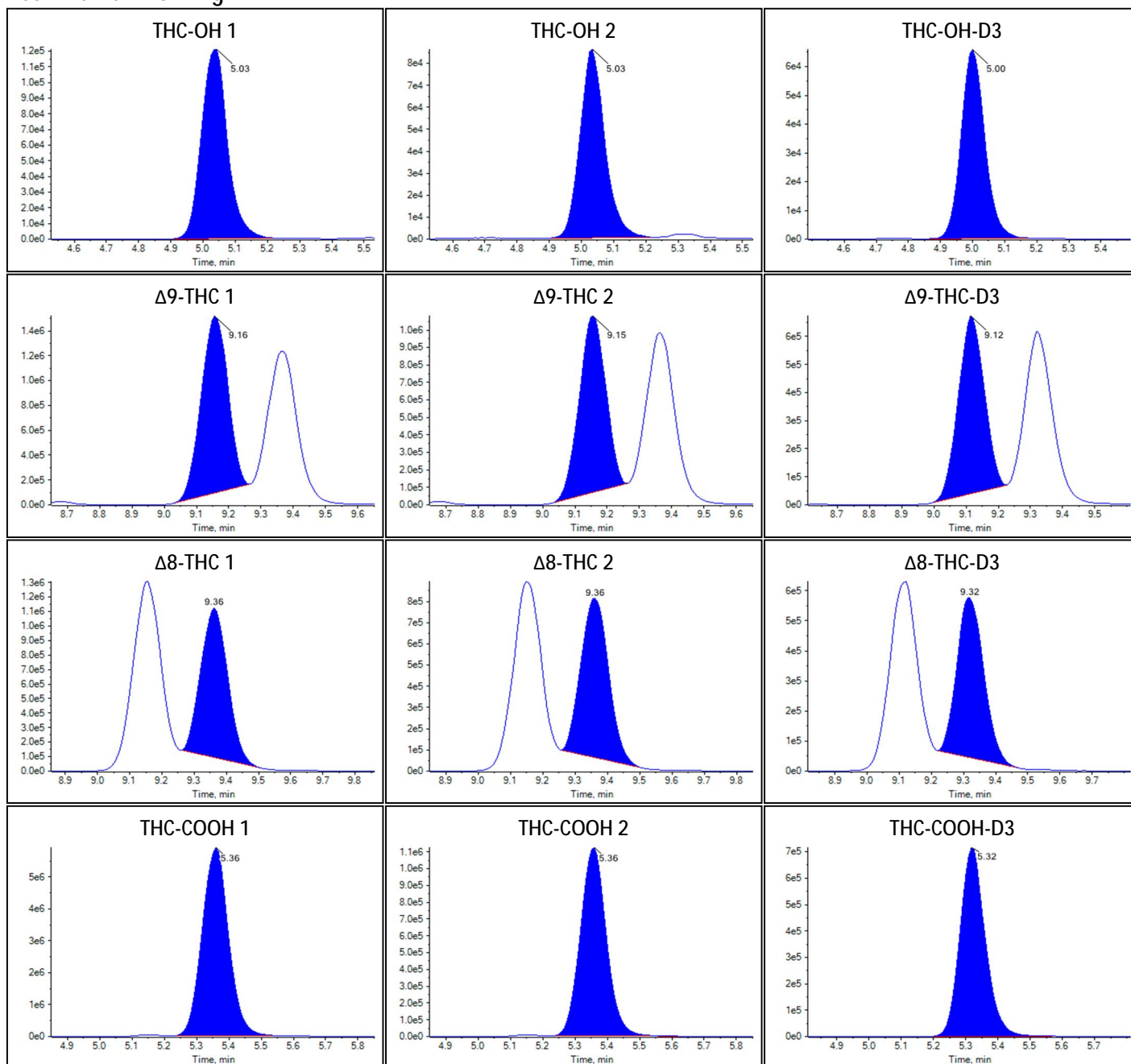
Sample Name	GB high A
Acquisition Date/Time	2022-09-13T18:31:20
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	37
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	2.005e0		
Δ 9-THC	2.322e0		
Δ 8-THC	1.928e0		
THC-COOH	8.680e0		

Identification Summary: GB high A

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.680(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.702(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.751(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.187(Not calculated)

Peak Review: GB high A





Sample Summary

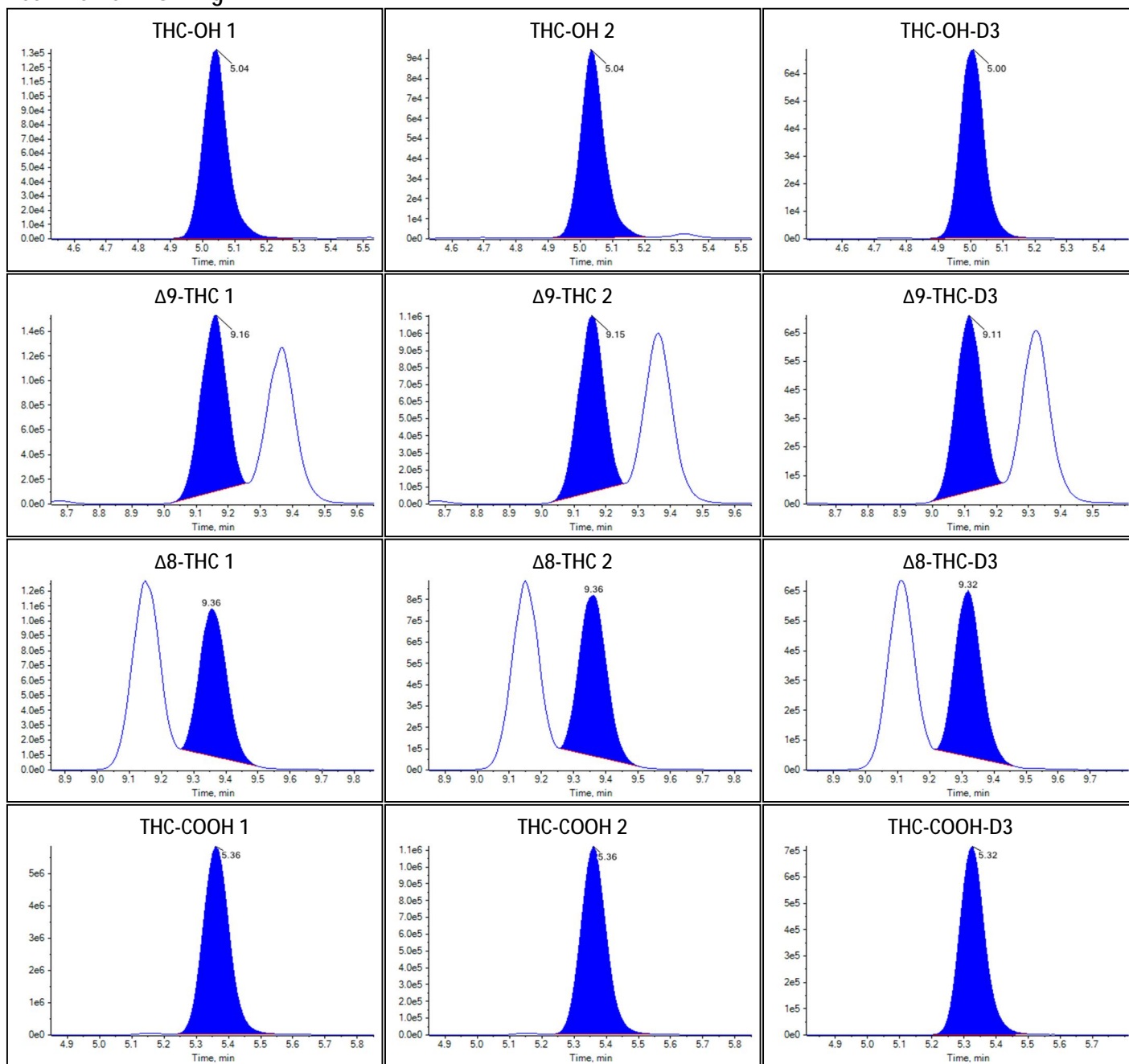
Sample Name	GB high B
Acquisition Date/Time	2022-09-13T18:45:25
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	38
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	1.943e0		
Δ 9-THC	2.308e0		
Δ 8-THC	1.826e0		
THC-COOH	8.469e0		

Identification Summary: GB high B

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.693(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.726(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.772(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.187(Not calculated)

Peak Review: GB high B





Sample Summary

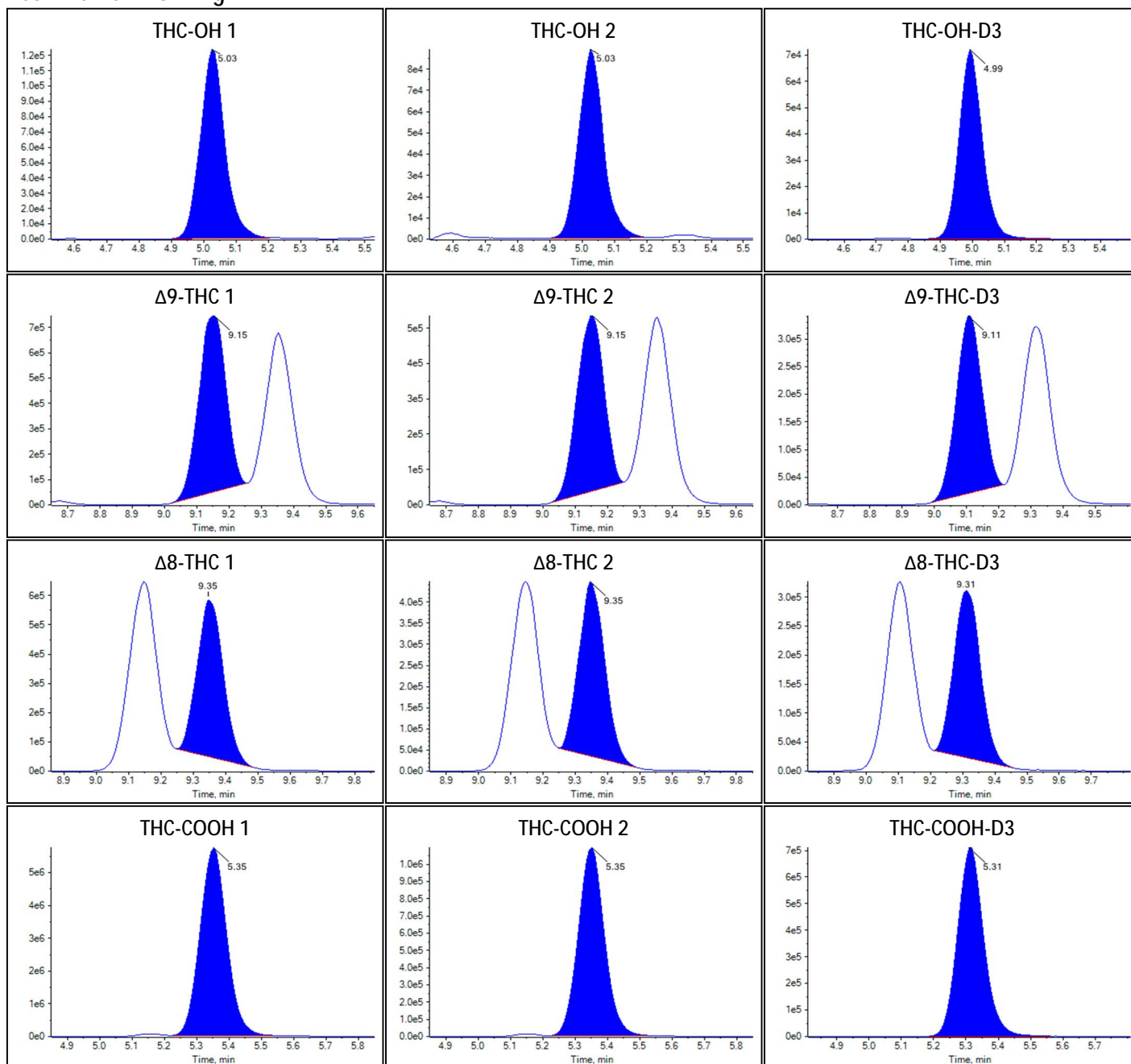
Sample Name	GA high A
Acquisition Date/Time	2022-09-13T18:59:31
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	39
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	1.805e0		
Δ 9-THC	2.303e0		
Δ 8-THC	1.812e0		
THC-COOH	8.251e0		

Identification Summary: GA high A

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.731(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.705(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.764(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.187(Not calculated)

Peak Review: GA high A





Sample Summary

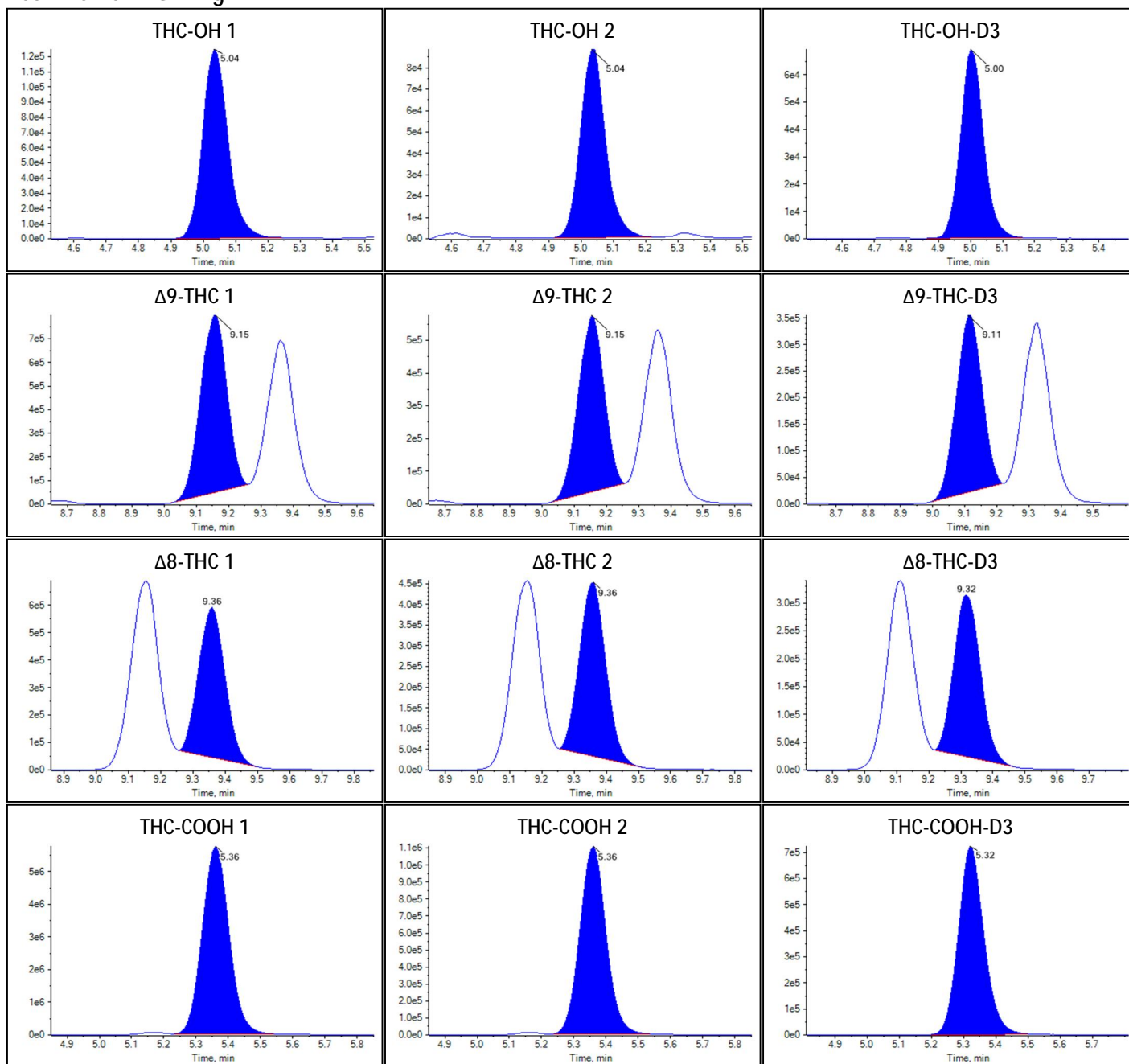
Sample Name	GA high B
Acquisition Date/Time	2022-09-13T19:13:36
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	40
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	1.962e0		
Δ 9-THC	2.321e0		
Δ 8-THC	1.851e0		
THC-COOH	8.274e0		

Identification Summary: GA high B

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.704(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.701(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.768(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.189(Not calculated)

Peak Review: GA high B





Sample Summary

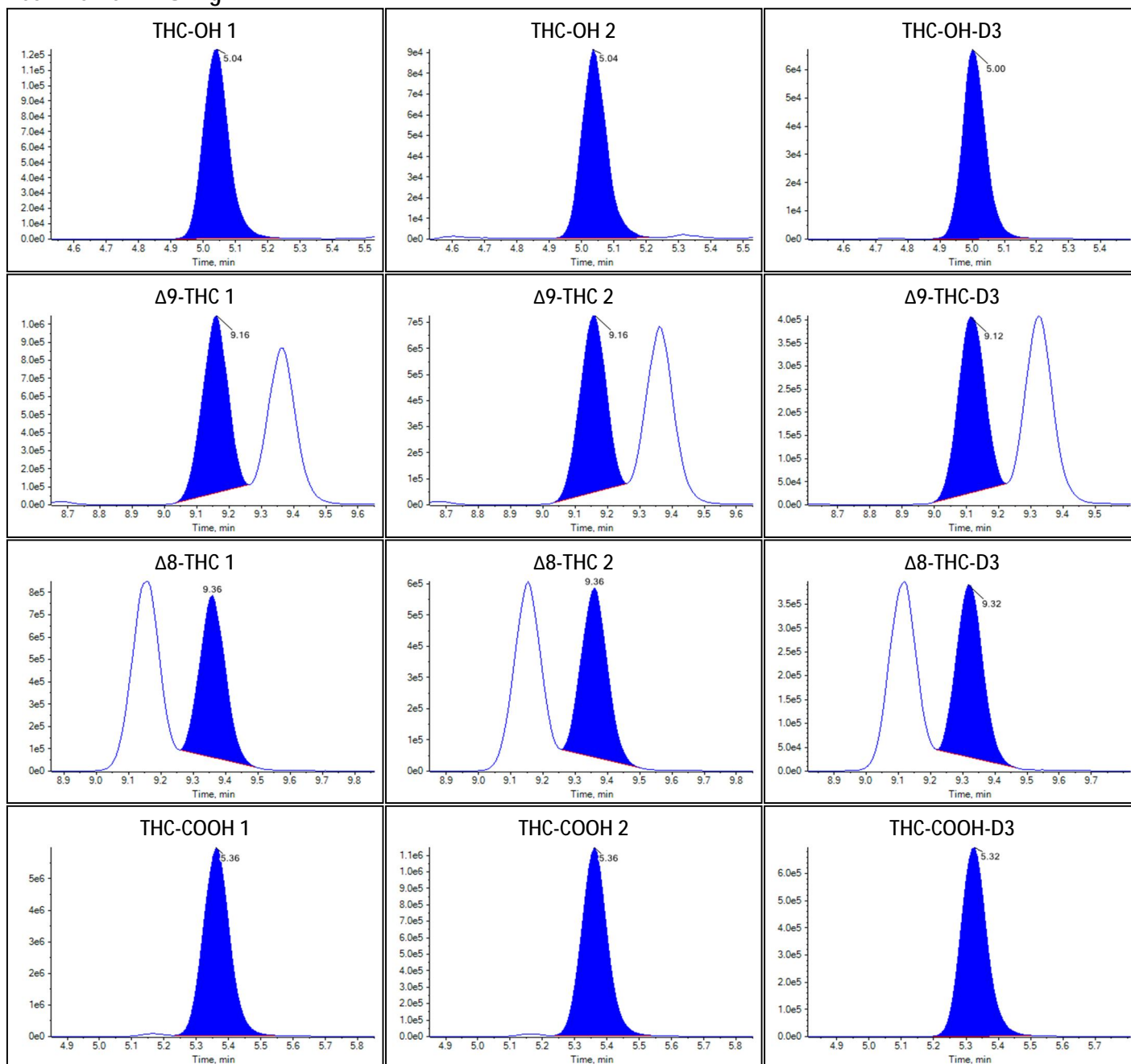
Sample Name	FU high A
Acquisition Date/Time	2022-09-13T19:27:41
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	41
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	1.993e0		
Δ 9-THC	2.444e0		
Δ 8-THC	1.927e0		
THC-COOH	8.683e0		

Identification Summary: FU high A

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.716(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.714(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.765(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.187(Not calculated)

Peak Review: FU high A





Sample Summary

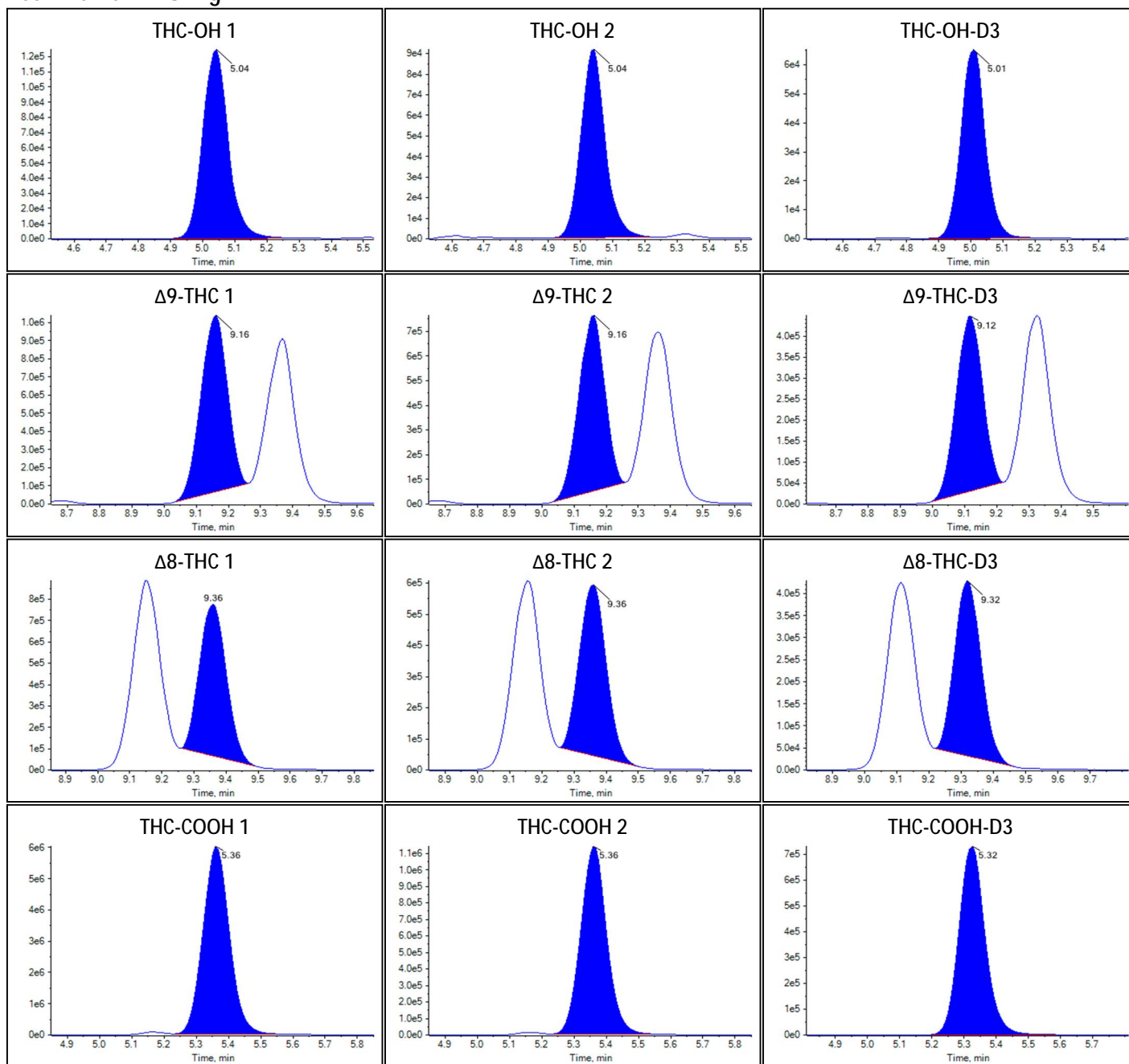
Sample Name	FU high B
Acquisition Date/Time	2022-09-13T19:41:47
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	42
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	1.981e0		
Δ 9-THC	2.341e0		
Δ 8-THC	1.816e0		
THC-COOH	8.261e0		

Identification Summary: FU high B

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.700(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.719(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.771(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.186(Not calculated)

Peak Review: FU high B





Sample Summary

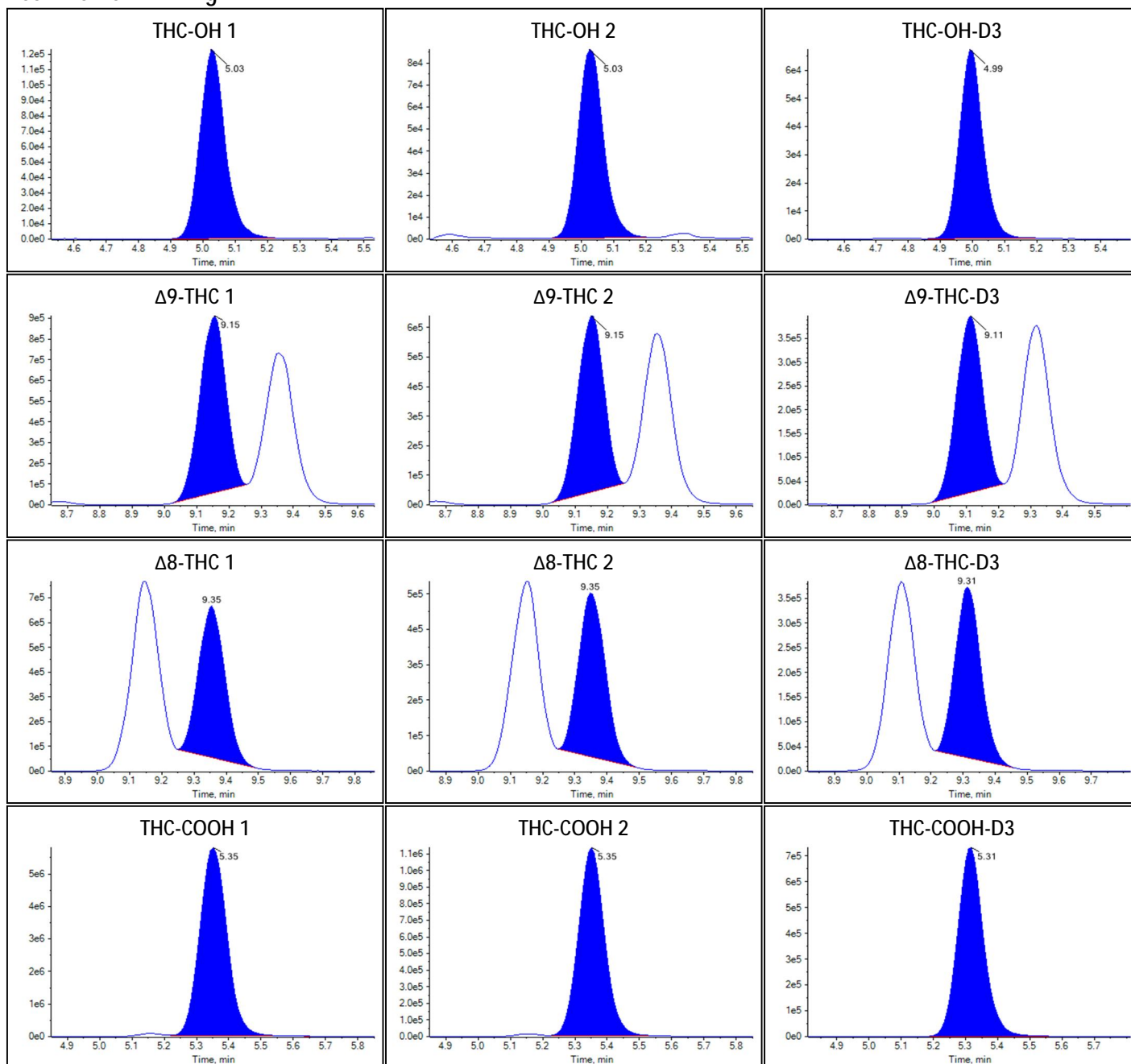
Sample Name	FT high A
Acquisition Date/Time	2022-09-13T19:55:52
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	43
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	1.940e0		
Δ 9-THC	2.304e0		
Δ 8-THC	1.794e0		
THC-COOH	8.276e0		

Identification Summary: FT high A

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.710(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.705(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.766(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.188(Not calculated)

Peak Review: FT high A





Sample Summary

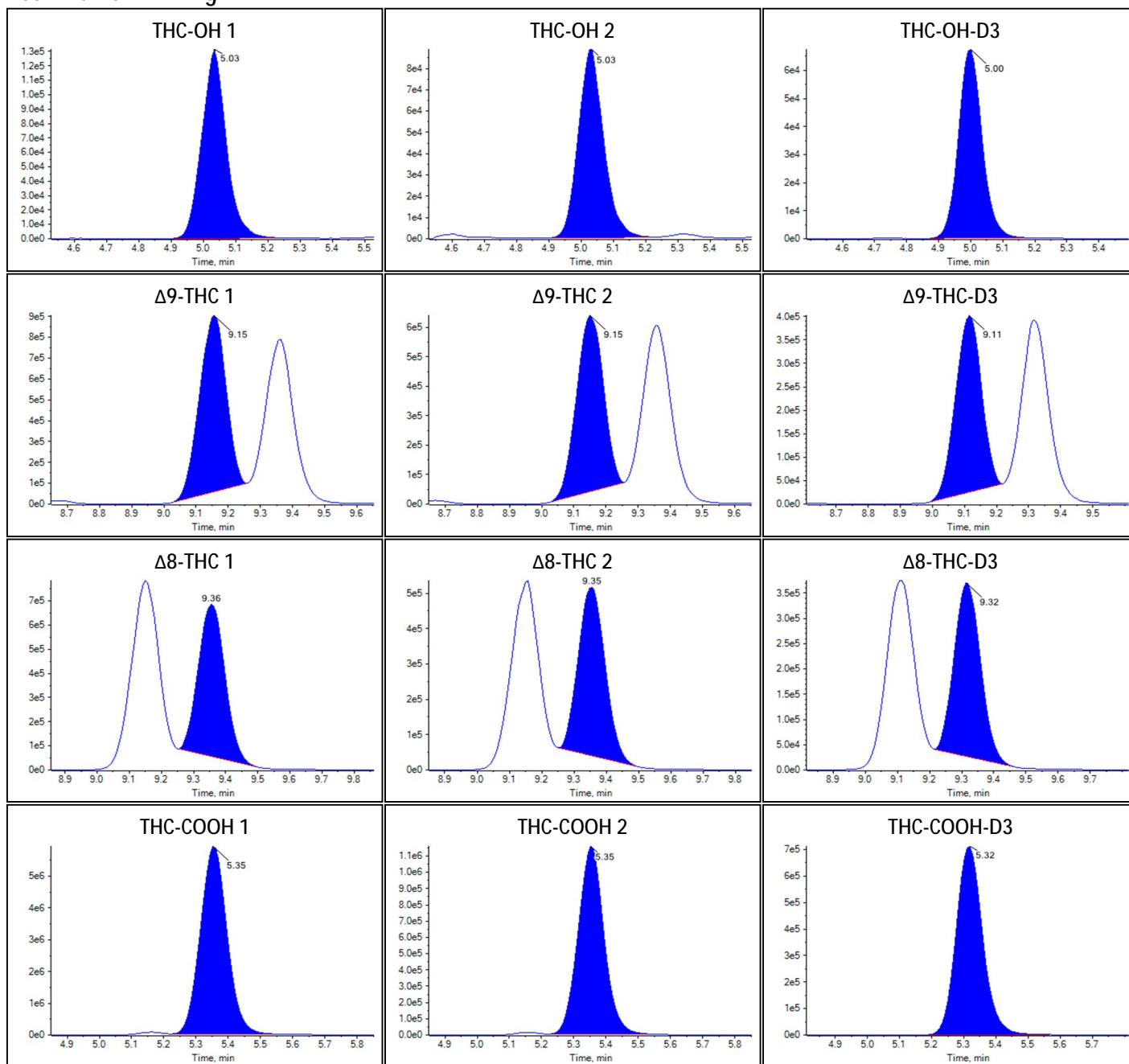
Sample Name	FT high B
Acquisition Date/Time	2022-09-13T20:09:57
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	44
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	2.003e0		
Δ 9-THC	2.289e0		
Δ 8-THC	1.842e0		
THC-COOH	8.409e0		

Identification Summary: FT high B

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.700(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.715(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.761(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.189(Not calculated)

Peak Review: FT high B





Sample Summary

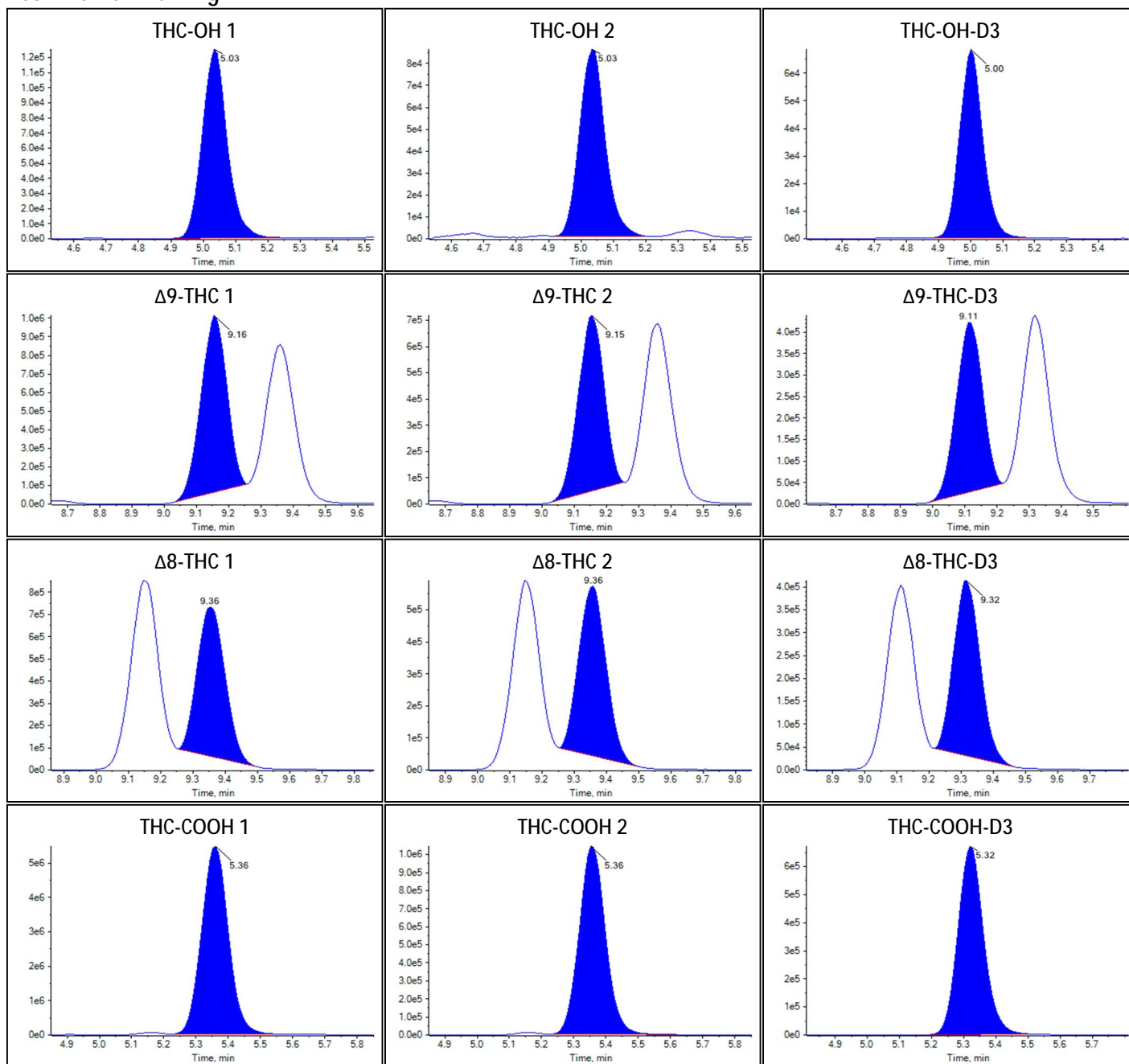
Sample Name	CY high A
Acquisition Date/Time	2022-09-13T20:24:03
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	45
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	1.952e0		
Δ 9-THC	2.373e0		
Δ 8-THC	1.836e0		
THC-COOH	8.445e0		

Identification Summary: CY high A

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.702(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.707(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.777(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.188(Not calculated)

Peak Review: CY high A





Sample Summary

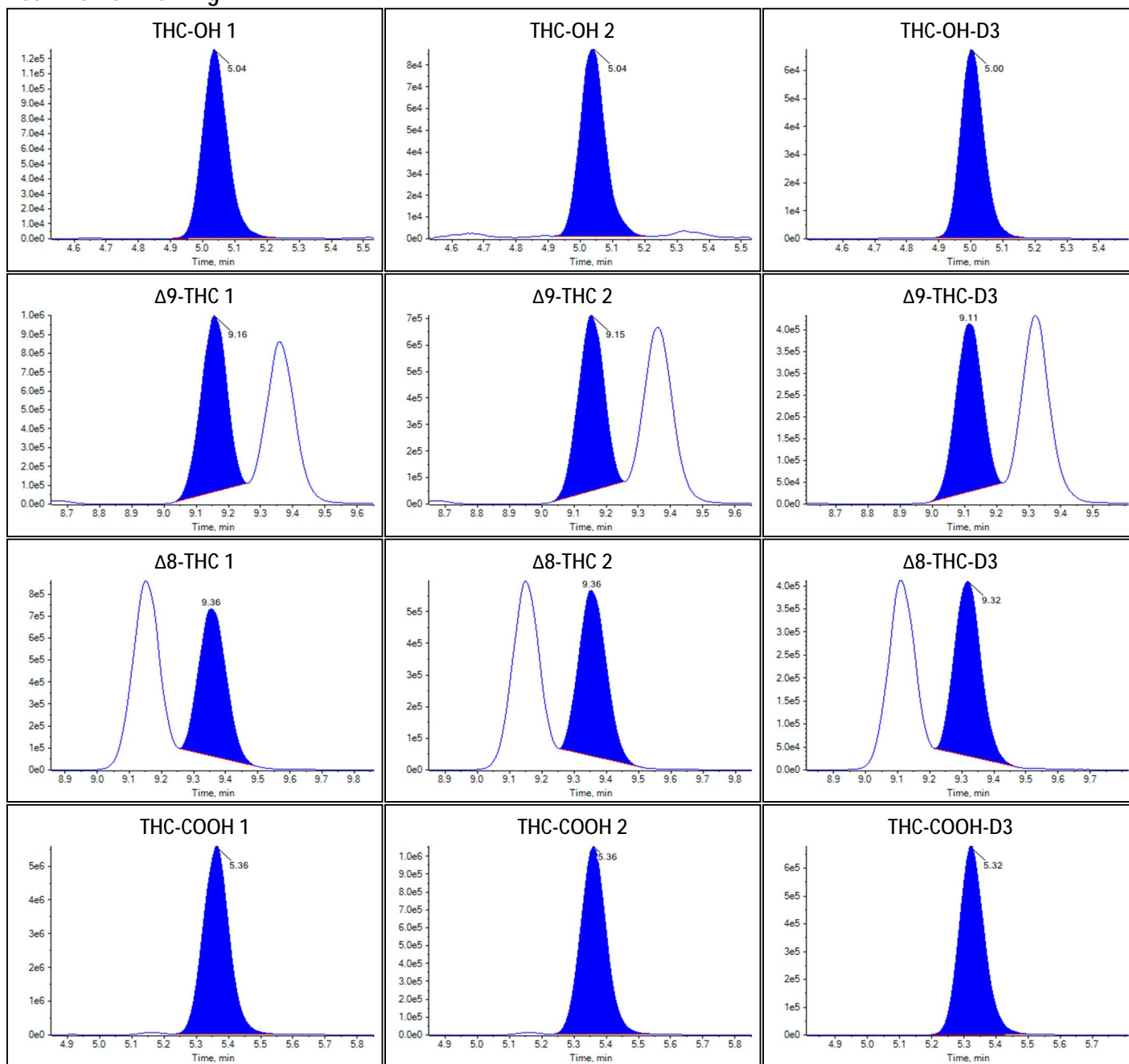
Sample Name	CY high B
Acquisition Date/Time	2022-09-13T20:38:08
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	46
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	1.984e0		
Δ 9-THC	2.375e0		
Δ 8-THC	1.821e0		
THC-COOH	8.459e0		

Identification Summary: CY high B

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.697(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.707(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.779(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.186(Not calculated)

Peak Review: CY high B





Sample Summary

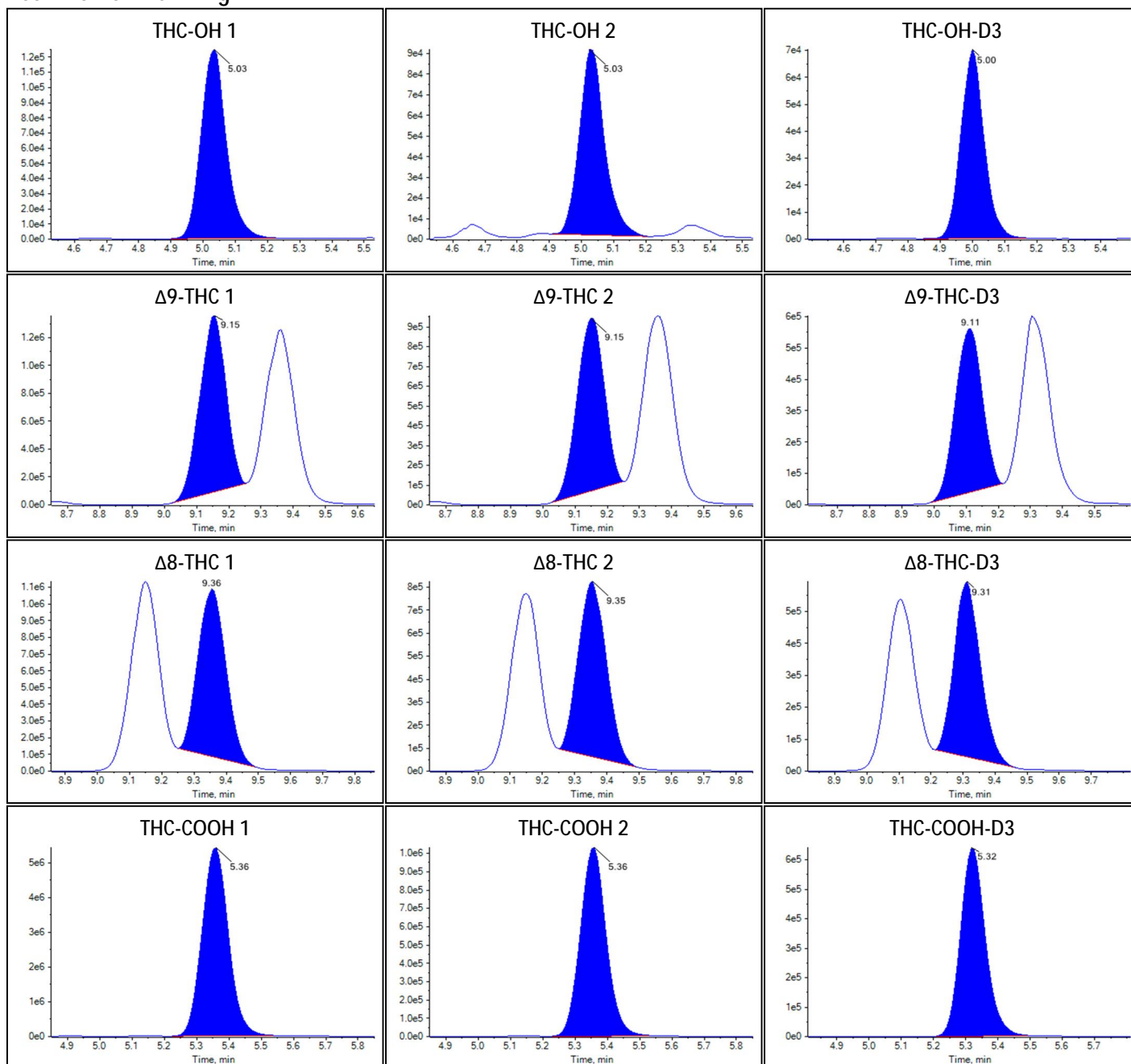
Sample Name	CW high A
Acquisition Date/Time	2022-09-13T20:52:14
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	47
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	1.946e0		
Δ 9-THC	2.340e0		
Δ 8-THC	1.930e0		
THC-COOH	9.000e0		

Identification Summary: CW high A

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.719(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.717(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.765(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.187(Not calculated)

Peak Review: CW high A





Sample Summary

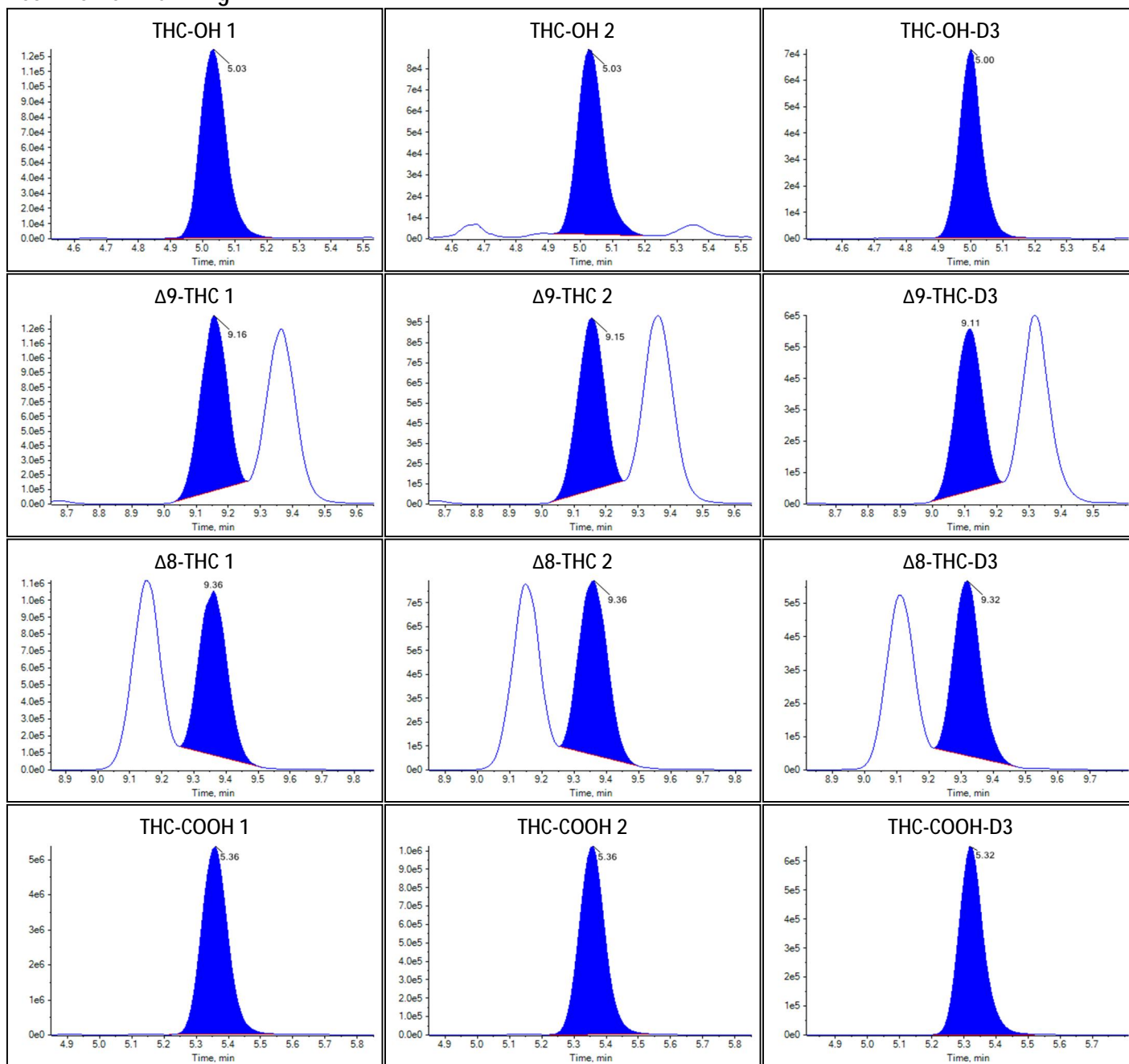
Sample Name	CW high B
Acquisition Date/Time	2022-09-13T21:06:19
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	48
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	1.984e0		
Δ 9-THC	2.309e0		
Δ 8-THC	1.911e0		
THC-COOH	8.826e0		

Identification Summary: CW high B

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.703(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.713(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.769(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.187(Not calculated)

Peak Review: CW high B





Sample Summary

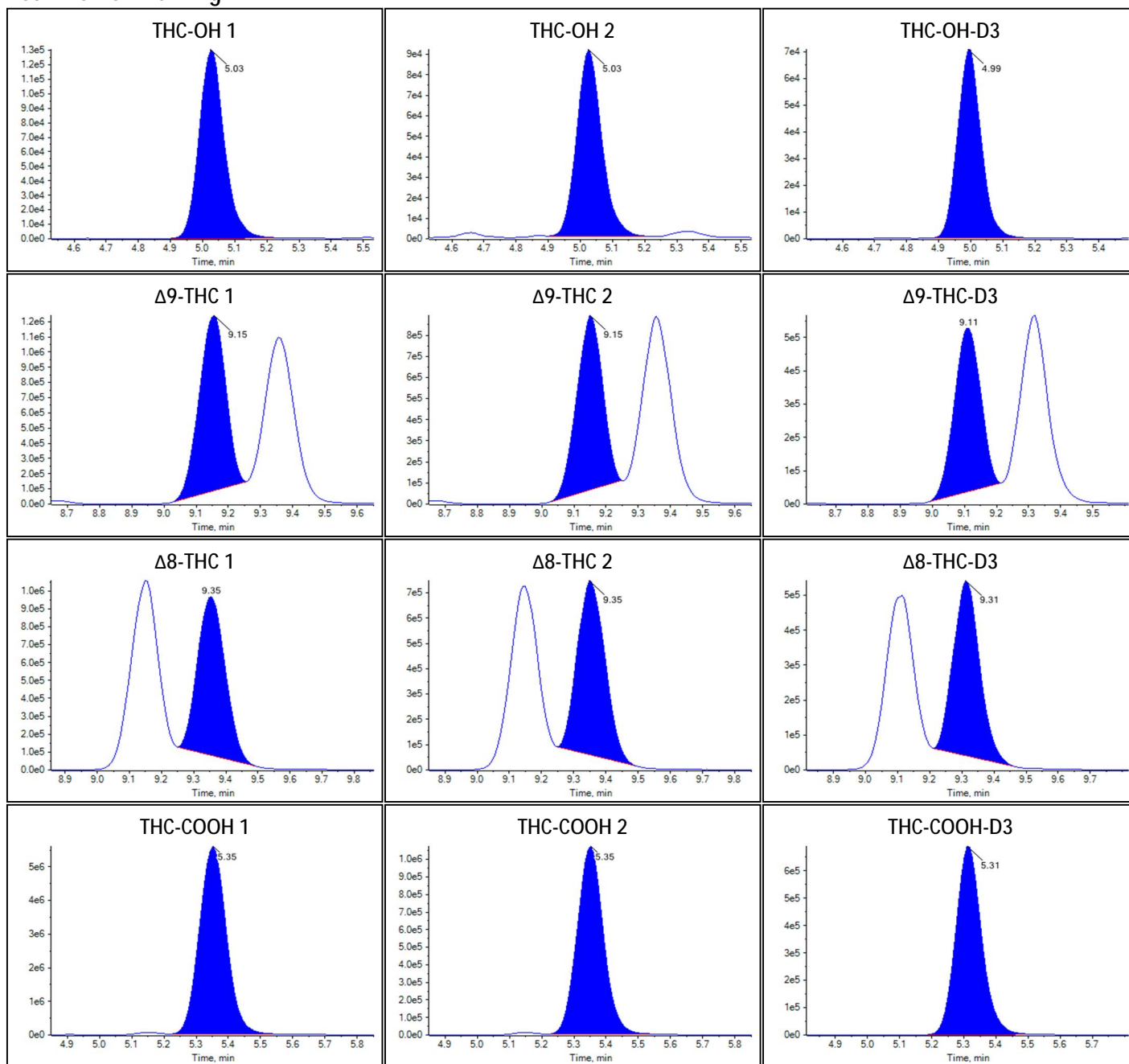
Sample Name	CV high A
Acquisition Date/Time	2022-09-13T21:20:24
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	49
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	1.969e0		
Δ 9-THC	2.367e0		
Δ 8-THC	1.860e0		
THC-COOH	8.450e0		

Identification Summary: CV high A

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.697(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.699(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.775(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.186(Not calculated)

Peak Review: CV high A





Sample Summary

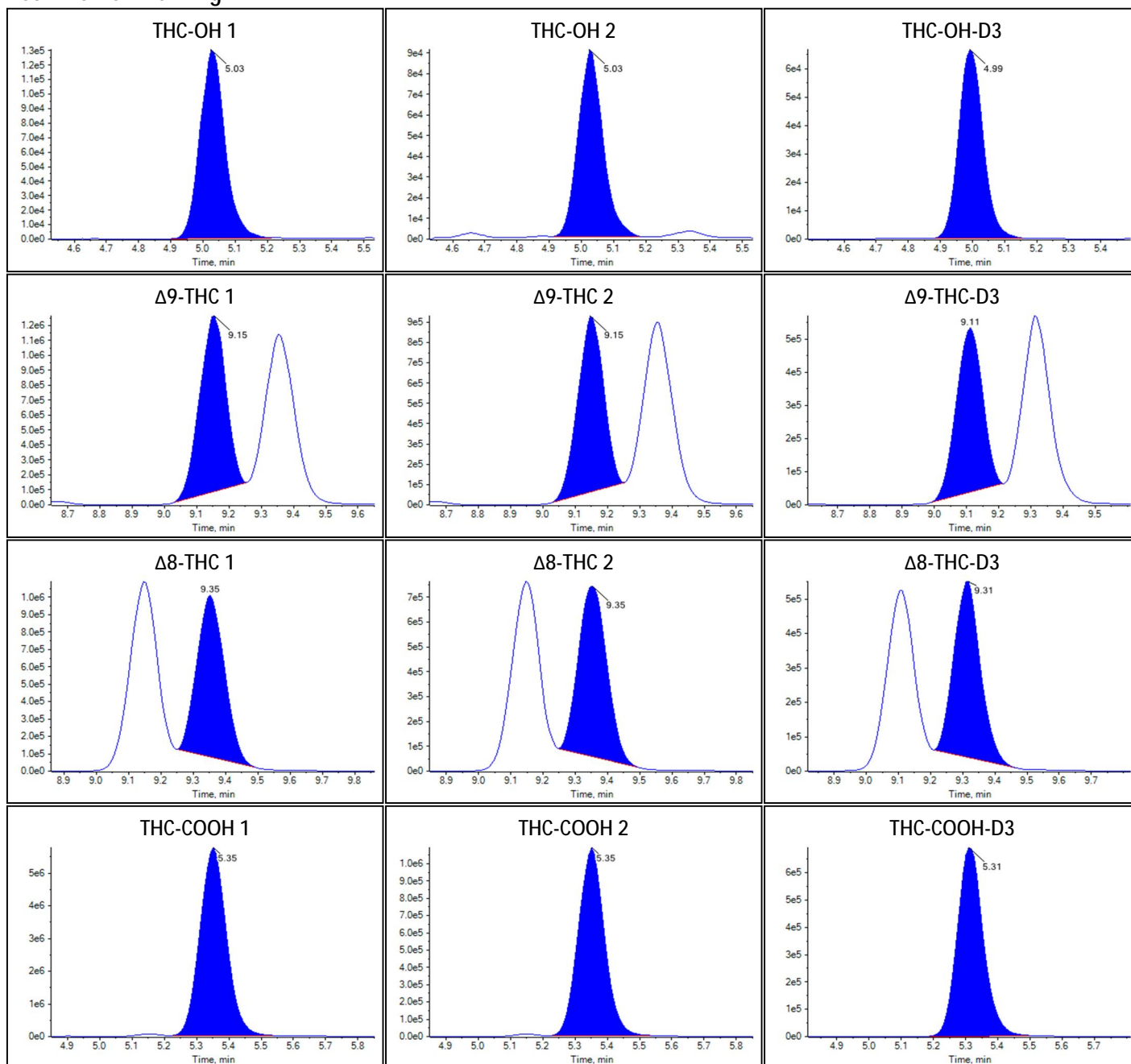
Sample Name	CV high B
Acquisition Date/Time	2022-09-13T21:34:30
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	50
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	1.996e0		
Δ 9-THC	2.369e0		
Δ 8-THC	1.893e0		
THC-COOH	8.481e0		

Identification Summary: CV high B

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.687(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.723(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.766(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.186(Not calculated)

Peak Review: CV high B





Sample Summary

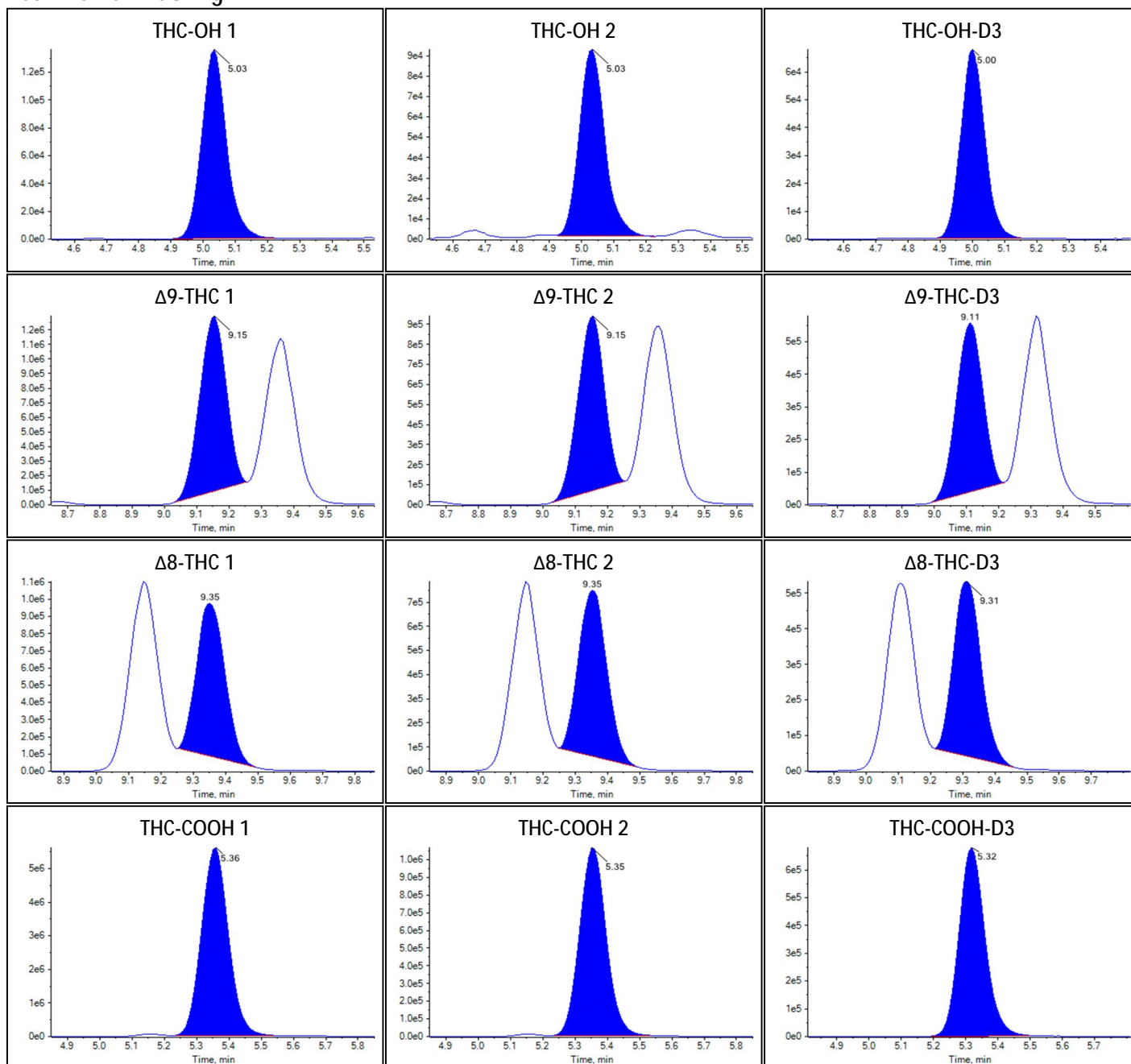
Sample Name	CU high A
Acquisition Date/Time	2022-09-13T21:48:35
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	51
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	2.061e0		
Δ 9-THC	2.321e0		
Δ 8-THC	1.863e0		
THC-COOH	8.537e0		

Identification Summary: CU high A

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.694(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.717(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.770(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.188(Not calculated)

Peak Review: CU high A





Sample Summary

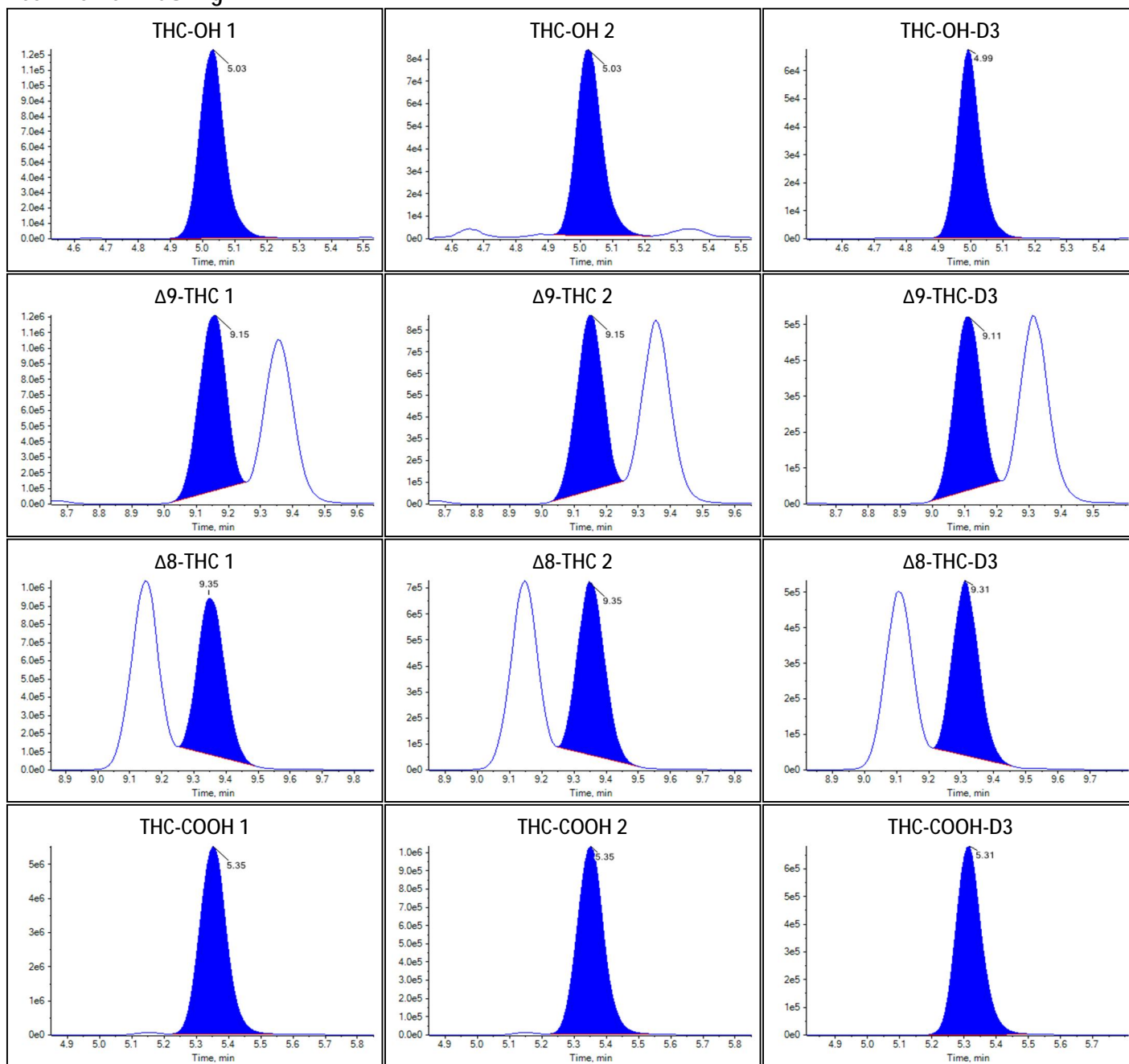
Sample Name	CU high B
Acquisition Date/Time	2022-09-13T22:02:41
Acquisition Method	THC.dam
Batch Name	20220913 Matrix Effect.dab
Results Table	20220913 Matrix Effect
Sample Type	Unknown
File Name	20220913 Ion supression and enhancement.wiff
Position	52
Sample Comment	

Analyte	Area Ratio	Analyte Comment	Component Comment
THC-OH	2.007e0		
Δ 9-THC	2.345e0		
Δ 8-THC	1.840e0		
THC-COOH	8.405e0		

Identification Summary: CU high B

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.688(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.701(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.766(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.185(Not calculated)

Peak Review: CU high B



LIMIT OF DETECTION (LOD)

Pipette 048

MeOH 21100234-1

Intermediate					Vol flask
	ML	ng/mL	ML		
Δ^9, Δ^8 -OH 1000000	25	5000	5000		1607
-COOH 1000000	62.5	12500	5000		1608
LOD 0.5					
Δ^9, Δ^8 -OH 5000	12.5	12.5	5000		1293
-COOH 12500	25	62.5	5000		
LOD 0.4					
Δ^9, Δ^8 -OH 5000	10	10	5000		1618
-COOH 12500	20	50	5000		

Δ^9 -THC FE09162102-
 Δ^8 -THC FE02172272
-OH FE09182008
-COOH FN09252110

exp 3-27
exp 5-28-27
exp 6-30-23 (retest)
exp 12-31-26

Cannabinoid Lot Log	
Date	09-19-22
Analyst	JLH
Checked tubes	N/A
Sample preparation	
Sample Pipette	007
Blank Blood	GB
Standards	09-14-22 JLH
Controls	09-14-22 JLH
Standards/Controls Pipette	064
Internal Standard	09-14-22 SB
Internal Standard Pipette	103
0.1 % formic acid in H ₂ O	09-16-22 DMC
Extraction	
SLE Cartridge	22061206CA
MTBE	L322A-3
B: 0.1% formic acid in ACN	08-29-22 SB
A: 0.1 % formic acid in H ₂ O	09-14-22 DMC
Instrumentation	
A: 0.1 % formic acid in H ₂ O	09-01-22 HK
B: 0.1% formic acid in ACN	09-12-22 SB
Column Serial Number	USC6C17438
Instrument	21-1
Sequence Check:	
Notes: LOD GB, GD, GE	



Sample Summary

Sample Name	Standard 1
Acquisition Date/Time	9/19/2022 10:28:20 PM
Acquisition Method	THC.dam
Batch Name	20220919 JLG_LOD.dab
Results Table	20220919JLG LOD
Sample Type	Standard
File Name	20220919 JLG LOD.wiff
Position	52
Sample Comment	

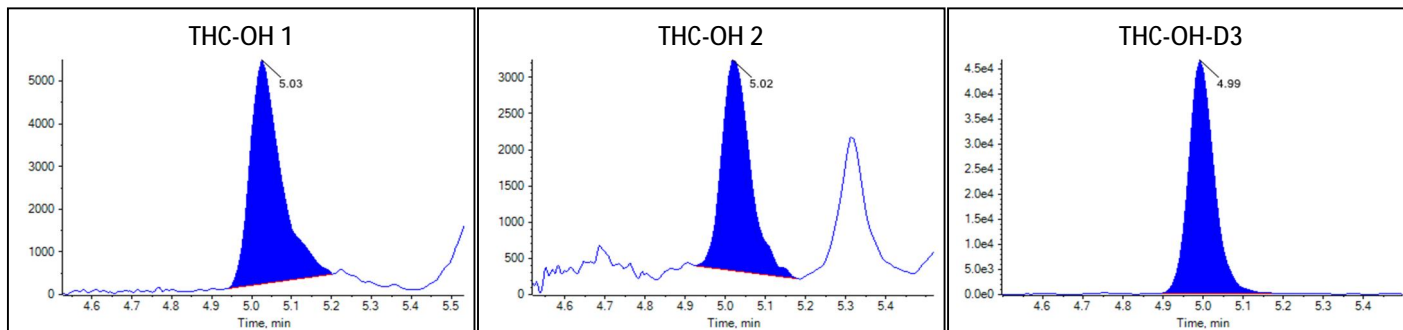
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.381e-1	1.056e0		
Δ 9-THC	3.341e-2	1.081e0		
Δ 8-THC	2.470e-2	1.110e0		
THC-COOH	5.348e-1	5.050e0		

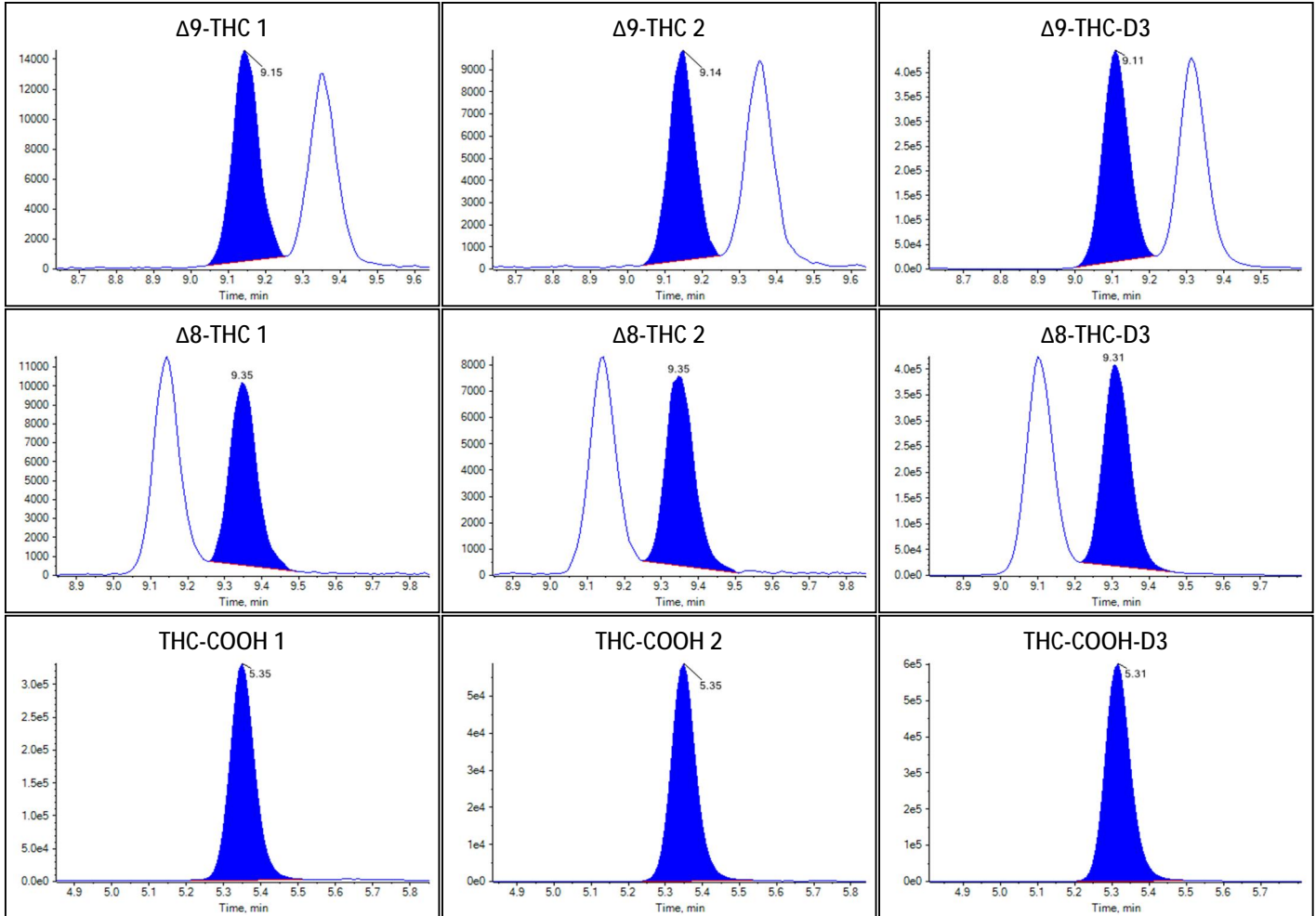
Identification Summary: Standard 1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.512(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.660(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.787(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.177(Pass)

Peak Review: Standard 1



Peak Review: Standard 1



Sample Summary

Sample Name	Standard 2
Acquisition Date/Time	9/19/2022 10:42:24 PM
Acquisition Method	THC.dam
Batch Name	20220919 JLG_LOD.dab
Results Table	20220919JLG LOD
Sample Type	Standard
File Name	20220919 JLG LOD.wiff
Position	53
Sample Comment	

Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	4.780e-1	3.709e0		
Δ^9 -THC	1.583e-1	4.659e0		
Δ^8 -THC	1.190e-1	4.535e0		

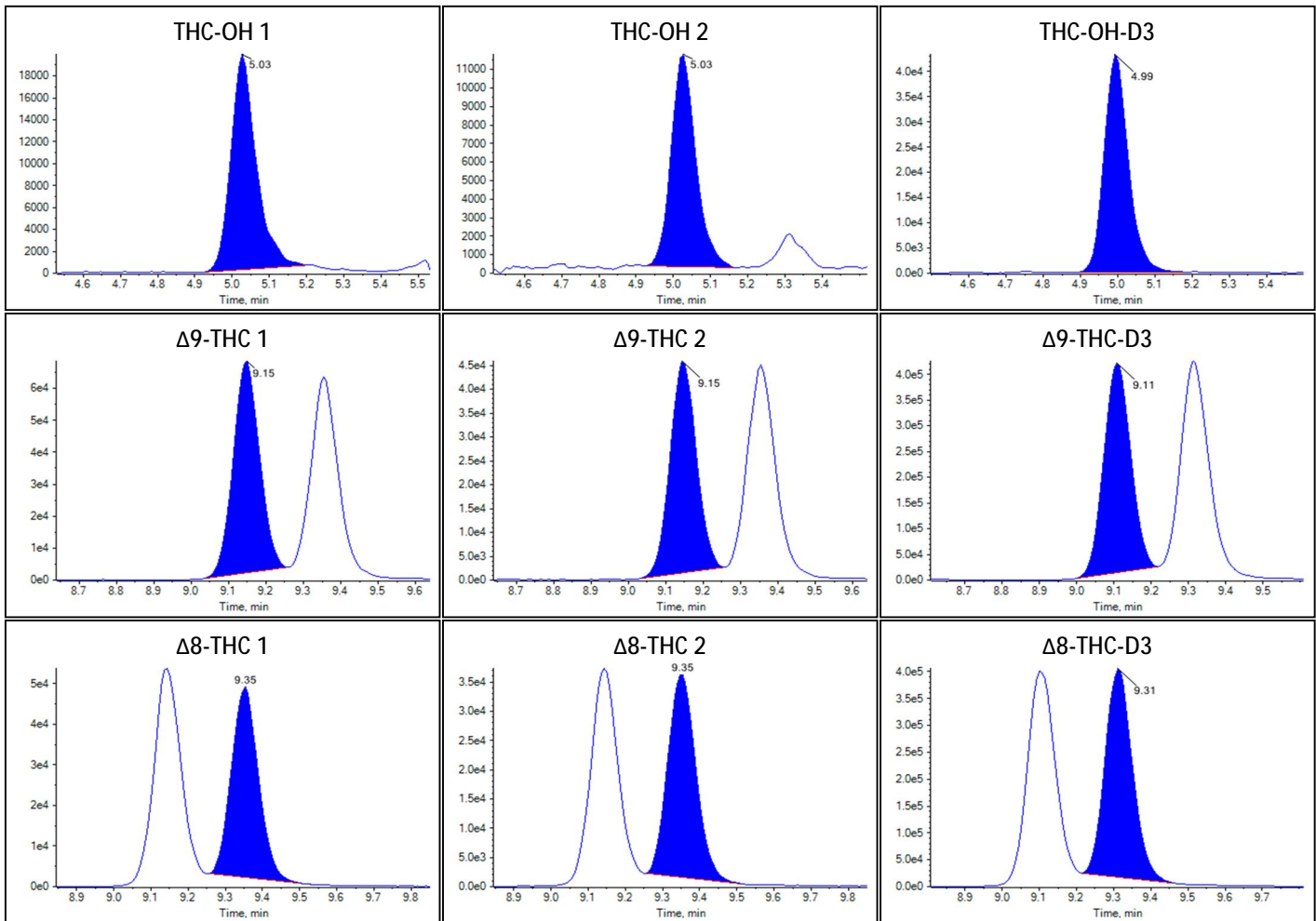
Quantitative Analytes Report

THC-COOH	1.008e0	9.481e0	
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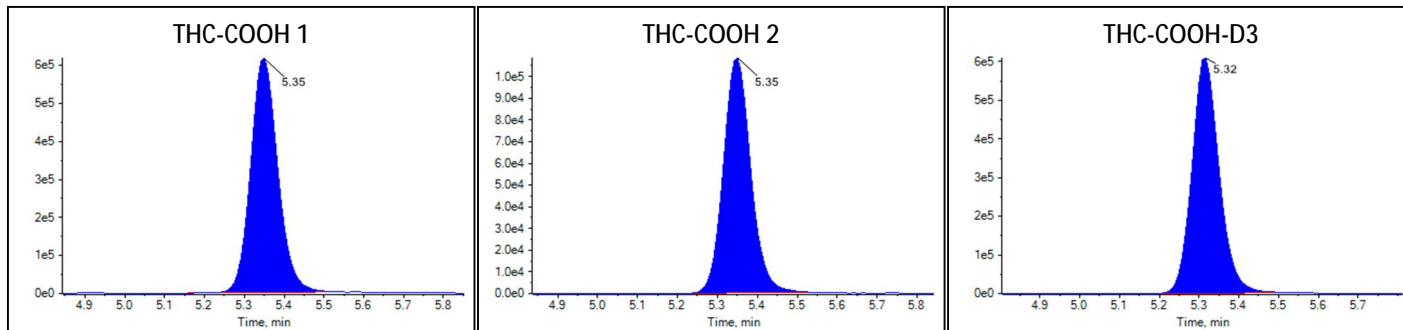
Identification Summary: Standard 2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.567(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.672(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.770(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.177(Pass)

Peak Review: Standard 2



Peak Review: Standard 2



Sample Summary

Sample Name	Standard 3
Acquisition Date/Time	9/19/2022 10:56:29 PM
Acquisition Method	THC.dam
Batch Name	20220919 JLG_LOD.dab
Results Table	20220919JLG LOD
Sample Type	Standard
File Name	20220919 JLG LOD.wiff
Position	54
Sample Comment	

Quantitative Summary

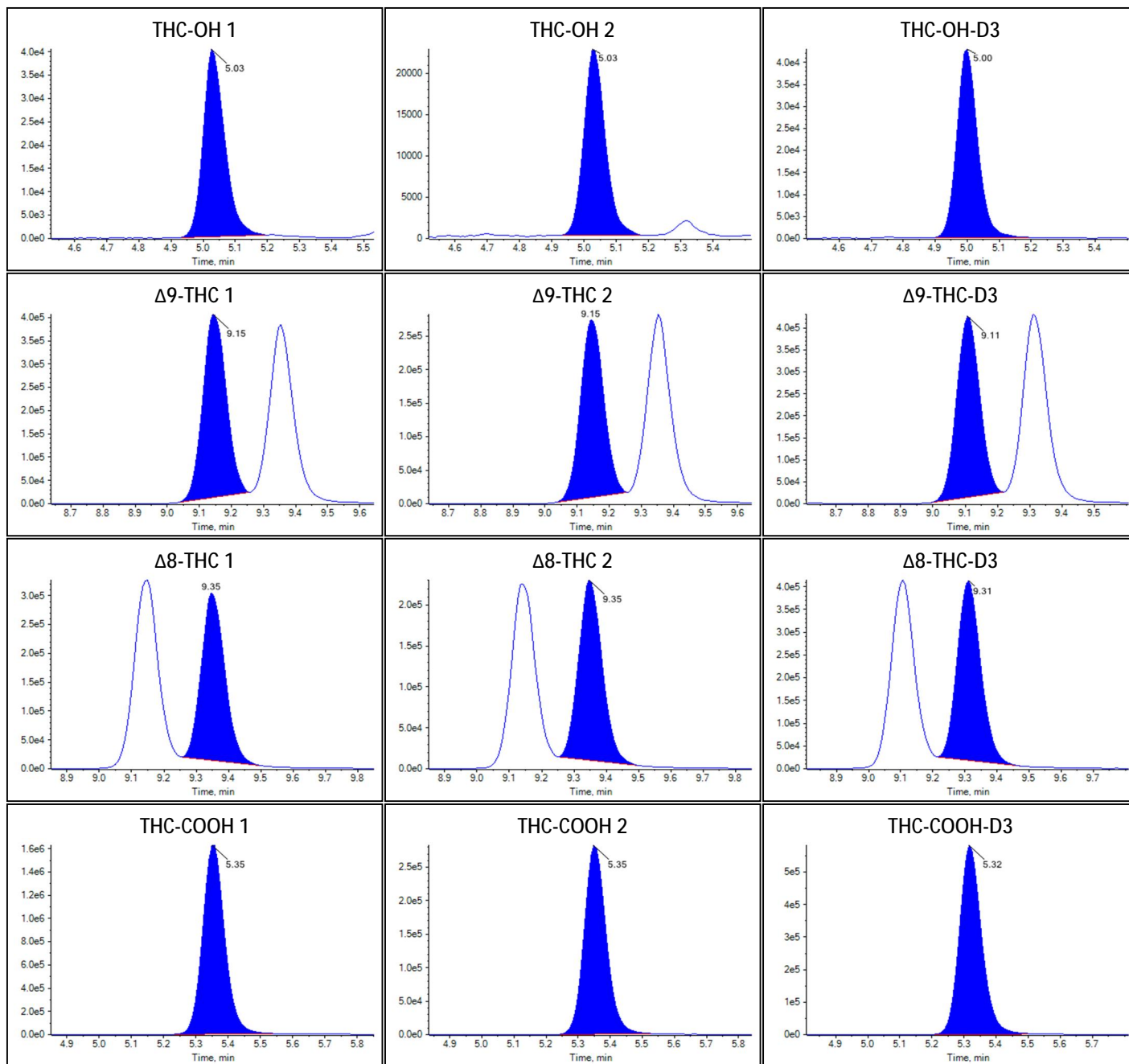
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	9.685e-1	7.538e0		
Δ 9-THC	9.718e-1	2.863e1		
Δ 8-THC	7.296e-1	2.794e1		
THC-COOH	2.780e0	2.605e1		

Identification Summary: Standard 3

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.556(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.669(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.764(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.173(Pass)

Peak Review: Standard 3

Peak Review: Standard 3



Sample Summary

Quantitative Analytes Report

Sample Name	Standard 4
Acquisition Date/Time	9/19/2022 11:10:35 PM
Acquisition Method	THC.dam
Batch Name	20220919 JLG_LOD.dab
Results Table	20220919JLG LOD
Sample Type	Standard
File Name	20220919 JLG LOD.wiff
Position	55
Sample Comment	

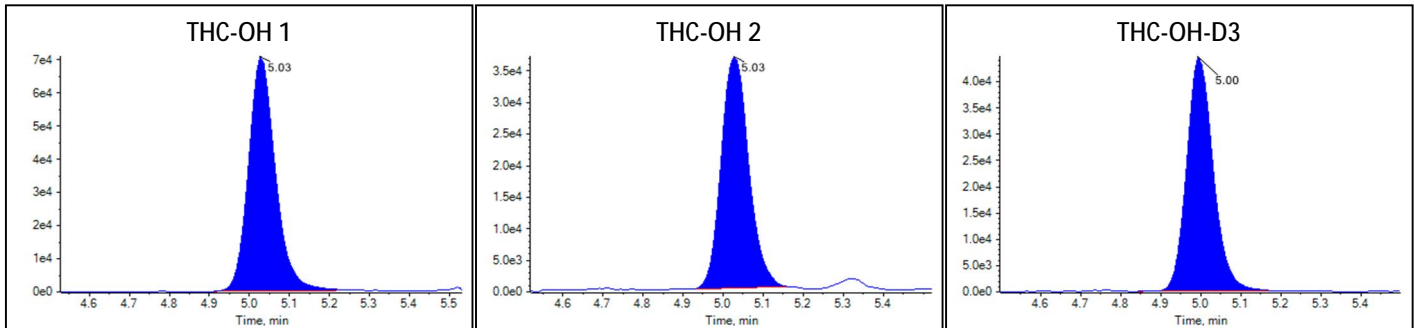
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.608e0	1.253e1		
Δ9-THC	1.643e0	4.938e1		
Δ8-THC	1.236e0	4.930e1		
THC-COOH	5.264e0	4.929e1		

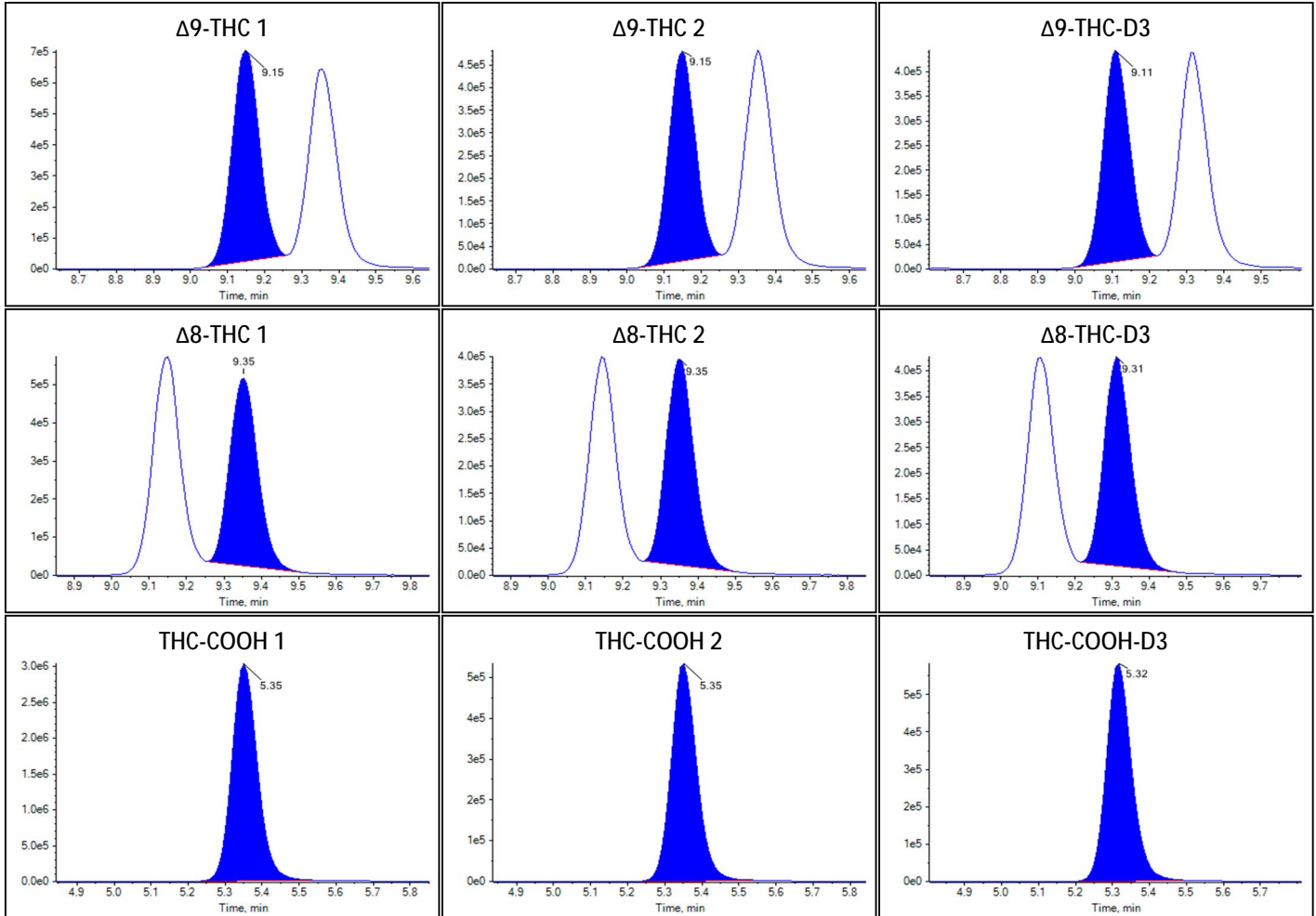
Identification Summary: Standard 4

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.531(Pass)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.664(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.765(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.175(Pass)

Peak Review: Standard 4



Peak Review: Standard 4



Sample Summary

Sample Name	Standard 5
Acquisition Date/Time	9/19/2022 11:24:40 PM
Acquisition Method	THC.dam
Batch Name	20220919 JLG_LOD.dab
Results Table	20220919JLG LOD
Sample Type	Standard
File Name	20220919 JLG LOD.wiff
Position	56
Sample Comment	

Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.275e0	1.773e1		
$\Delta 9$ -THC	2.447e0	7.556e1		
$\Delta 8$ -THC	1.854e0	7.883e1		

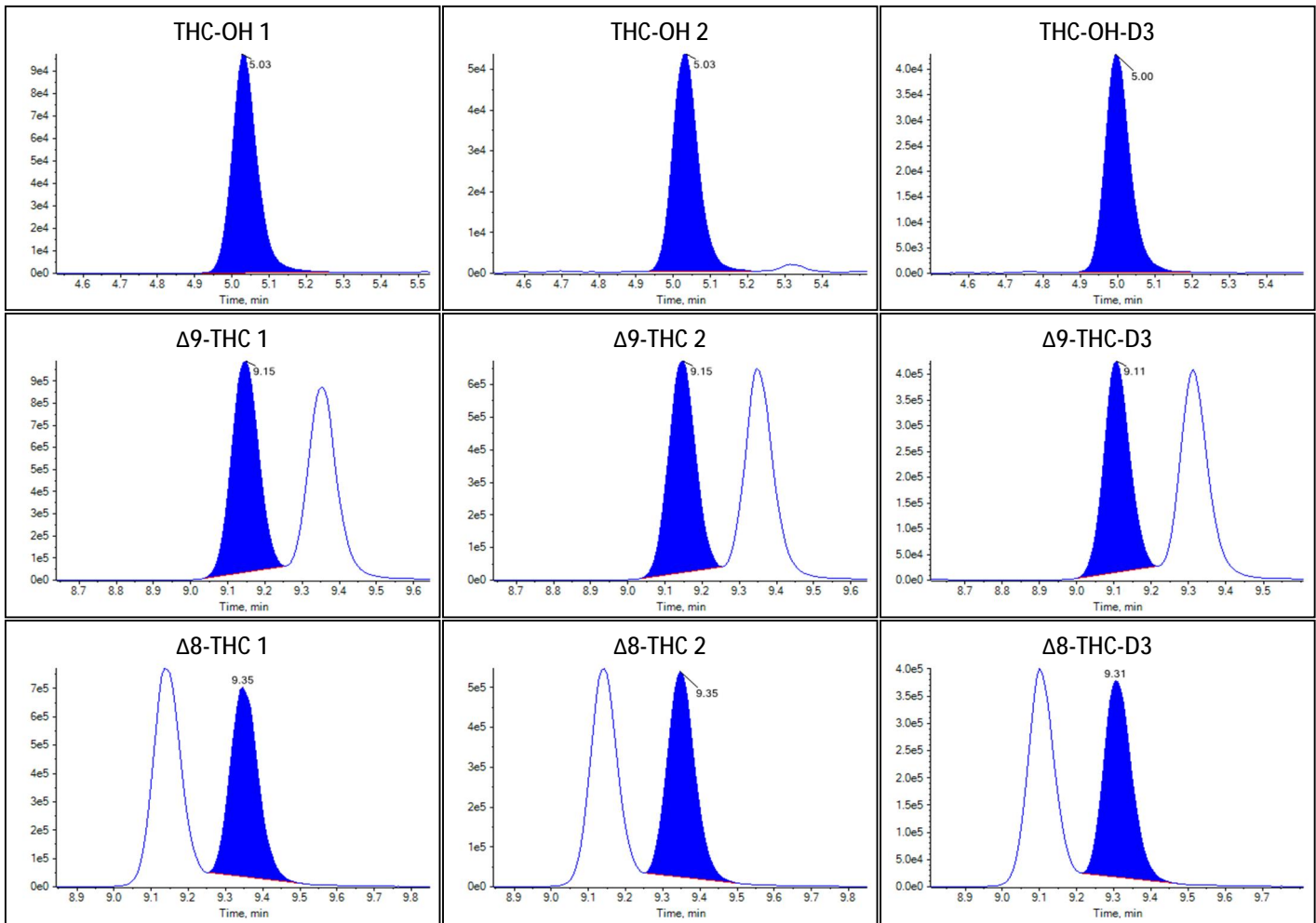
Quantitative Analytes Report

THC-COOH	8.422e0	7.883e1	
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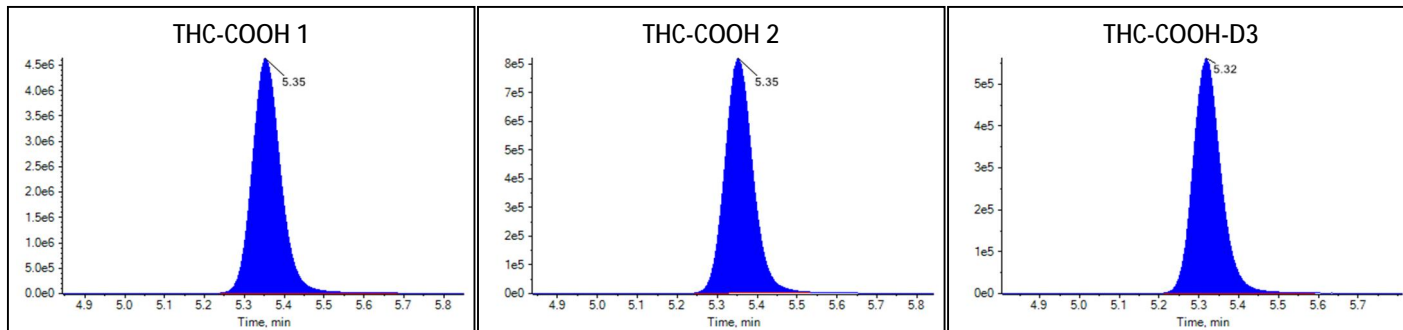
Identification Summary: Standard 5

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.560(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.678(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.763(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.174(Pass)

Peak Review: Standard 5



Peak Review: Standard 5



Sample Summary

Sample Name	Standard 6
Acquisition Date/Time	9/19/2022 11:38:42 PM
Acquisition Method	THC.dam
Batch Name	20220919 JLG_LOD.dab
Results Table	20220919JLG LOD
Sample Type	Standard
File Name	20220919 JLG LOD.wiff
Position	57
Sample Comment	

Quantitative Summary

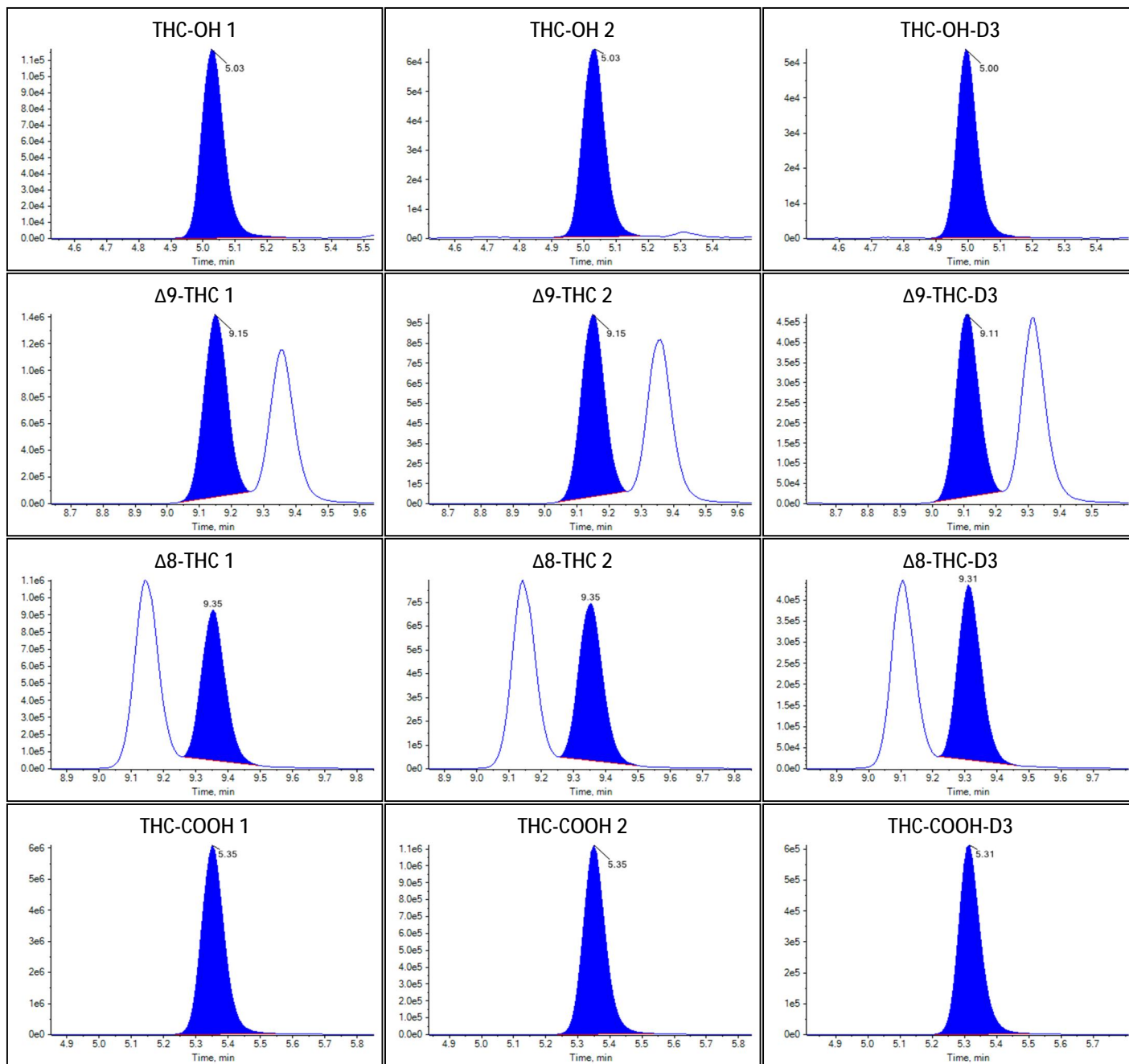
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.364e0	1.843e1		
Δ 9-THC	3.061e0	9.671e1		
Δ 8-THC	2.141e0	9.431e1		
THC-COOH	1.029e1	9.631e1		

Identification Summary: Standard 6

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.546(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.665(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.768(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.180(Pass)

Peak Review: Standard 6

Peak Review: Standard 6



Sample Summary

Quantitative Analytes Report

Sample Name	Low
Acquisition Date/Time	9/19/2022 11:52:48 PM
Acquisition Method	THC.dam
Batch Name	20220919 JLG_LOD.dab
Results Table	20220919JLG LOD
Sample Type	Quality Control
File Name	20220919 JLG LOD.wiff
Position	58
Sample Comment	

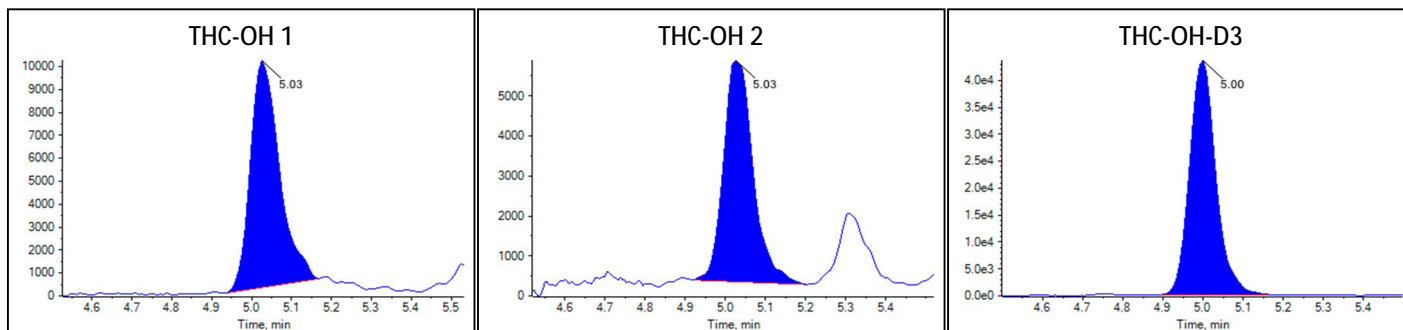
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.530e-1	1.953e0		
Δ9-THC	1.040e-1	3.100e0		
Δ8-THC	7.783e-2	3.034e0		
THC-COOH	8.462e-1	7.963e0		

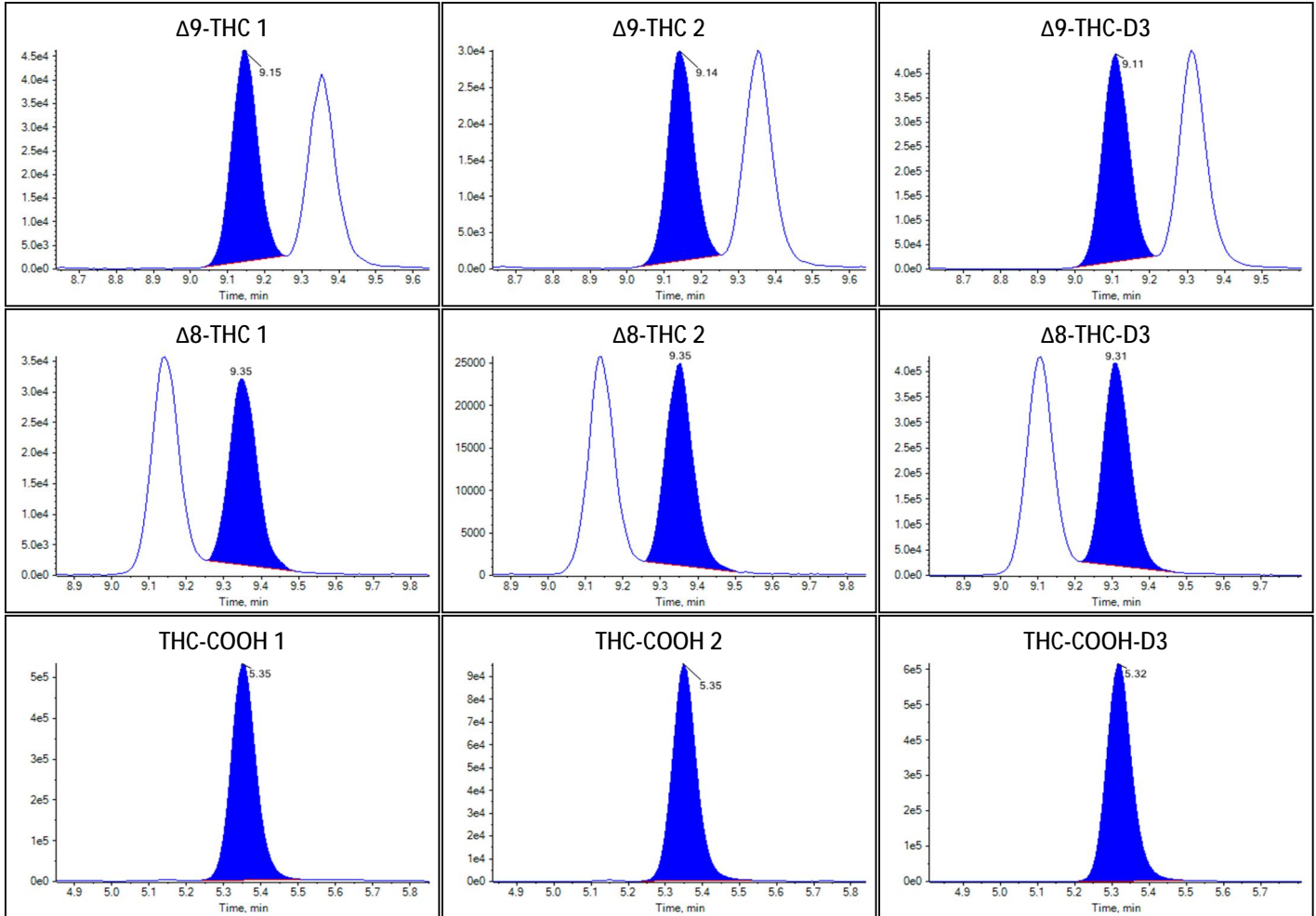
Identification Summary: Low

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.570(Pass)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.649(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.767(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.175(Pass)

Peak Review: Low



Peak Review: Low



Sample Summary

Sample Name	Medium
Acquisition Date/Time	9/20/2022 12:06:53 AM
Acquisition Method	THC.dam
Batch Name	20220919 JLG_LOD.dab
Results Table	20220919JLG LOD
Sample Type	Quality Control
File Name	20220919 JLG LOD.wiff
Position	59
Sample Comment	

Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.252e0	9.747e0		
Δ9-THC	1.334e0	3.970e1		
Δ8-THC	1.002e0	3.918e1		

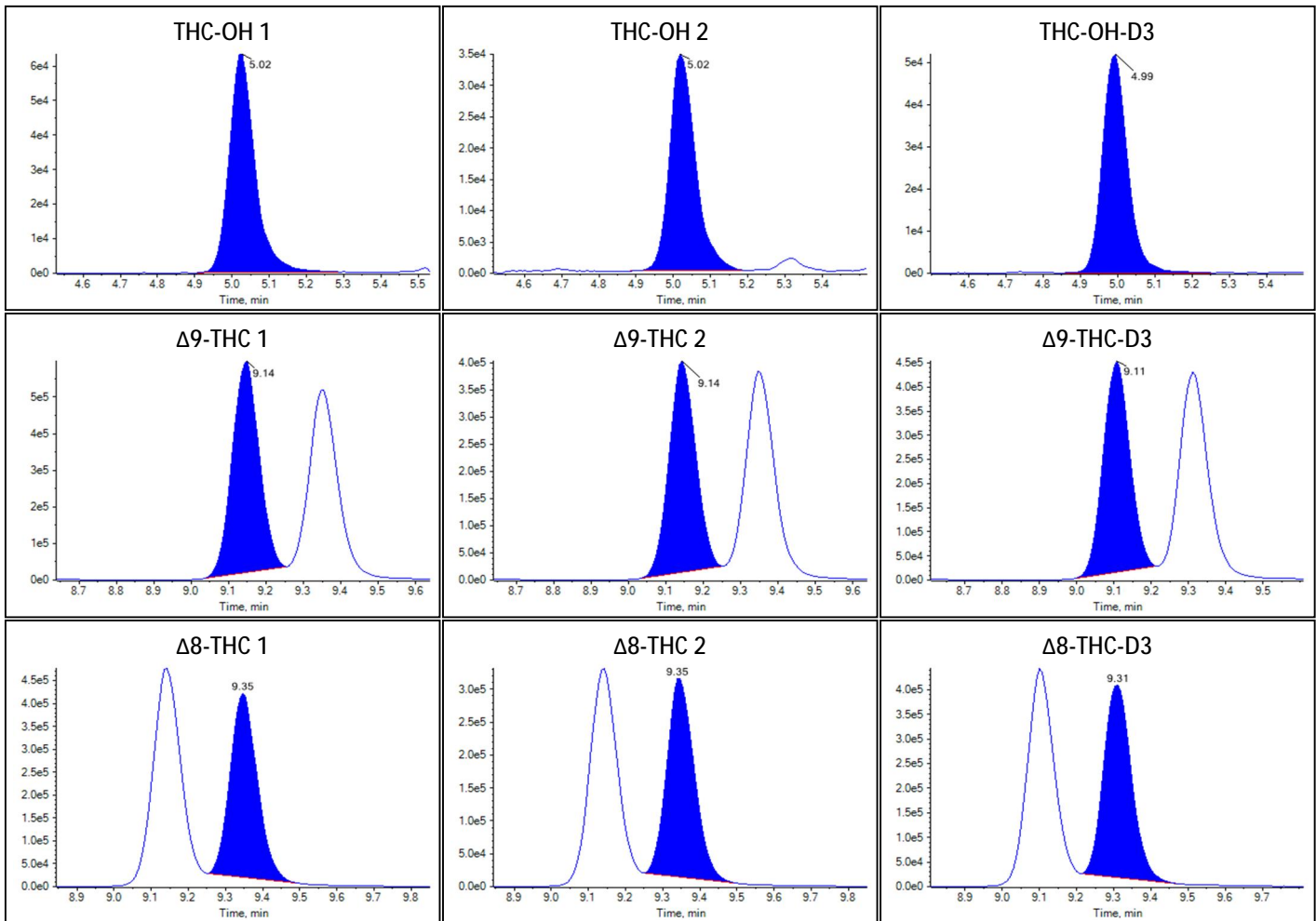
Quantitative Analytes Report

THC-COOH	4.475e0	4.190e1	
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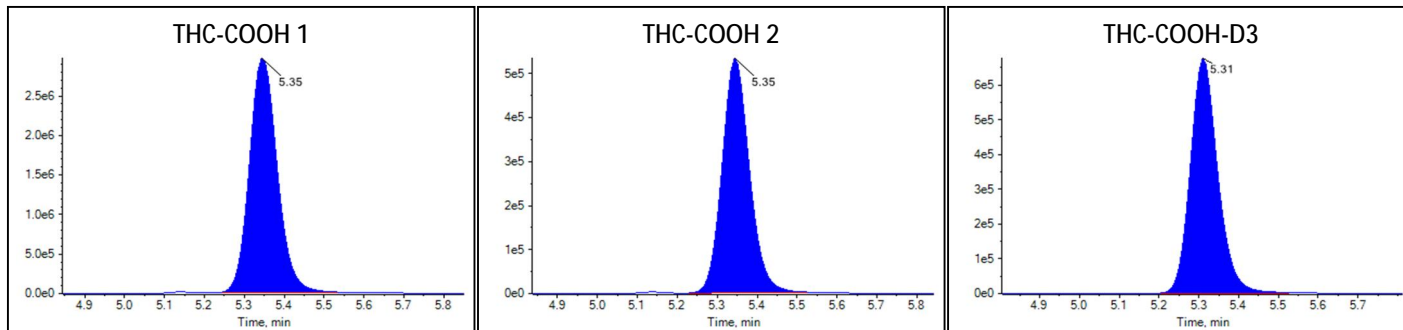
Identification Summary: Medium

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.551(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.667(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.760(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.175(Pass)

Peak Review: Medium



Peak Review: Medium



Sample Summary

Sample Name	High
Acquisition Date/Time	9/20/2022 12:20:59 AM
Acquisition Method	THC.dam
Batch Name	20220919 JLG_LOD.dab
Results Table	20220919JLG LOD
Sample Type	Quality Control
File Name	20220919 JLG LOD.wiff
Position	60
Sample Comment	

Quantitative Summary

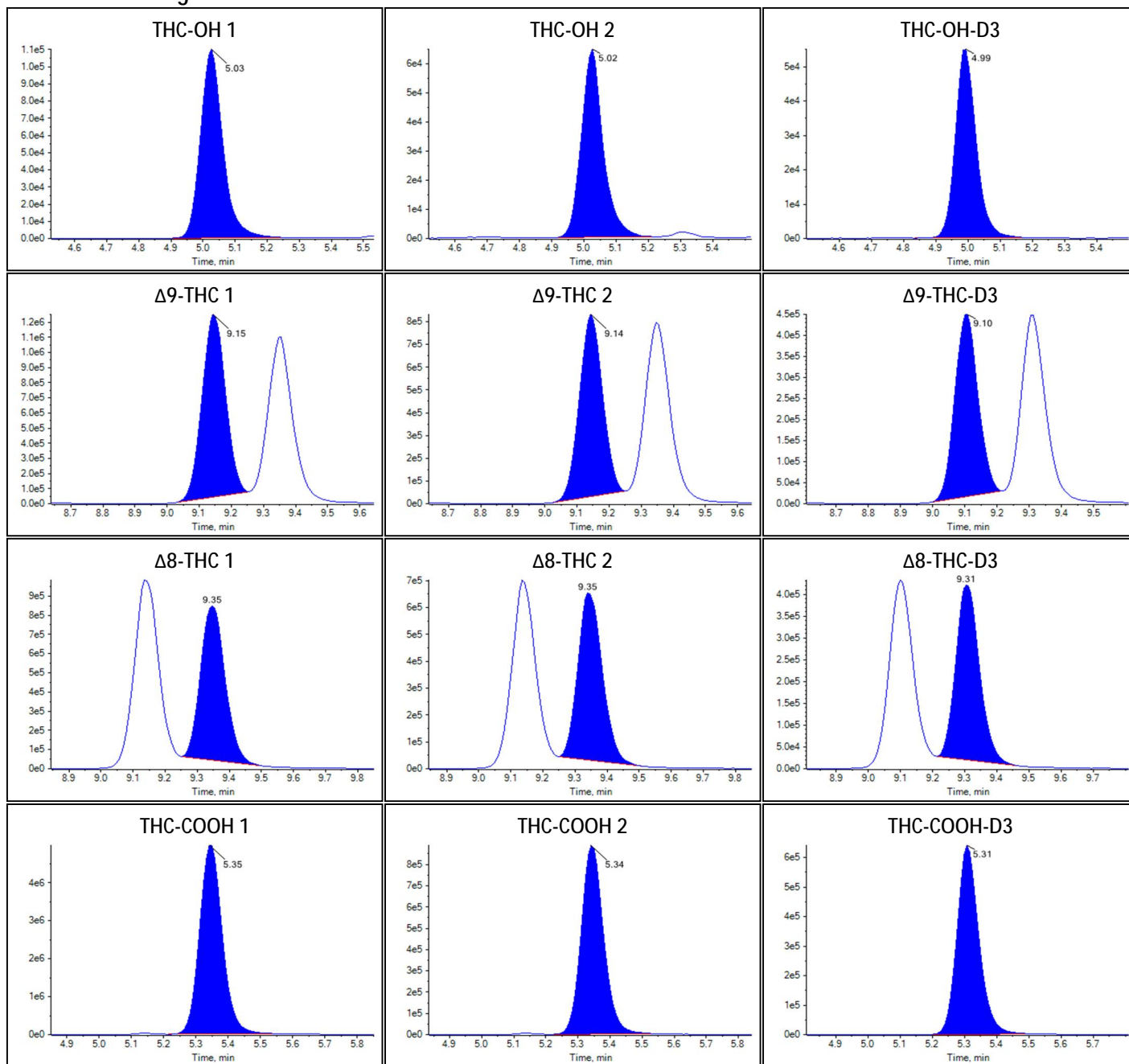
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.143e0	1.670e1		
Δ 9-THC	2.821e0	8.832e1		
Δ 8-THC	2.079e0	9.081e1		
THC-COOH	8.112e0	7.593e1		

Identification Summary: High

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.571(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.654(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.772(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.177(Pass)

Peak Review: High

Peak Review: High



Sample Summary

Quantitative Analytes Report

Sample Name	Negative
Acquisition Date/Time	9/20/2022 12:35:04 AM
Acquisition Method	THC.dam
Batch Name	20220919 JLG_LOD.dab
Results Table	20220919JLG LOD
Sample Type	Quality Control
File Name	20220919 JLG LOD.wiff
Position	61
Sample Comment	

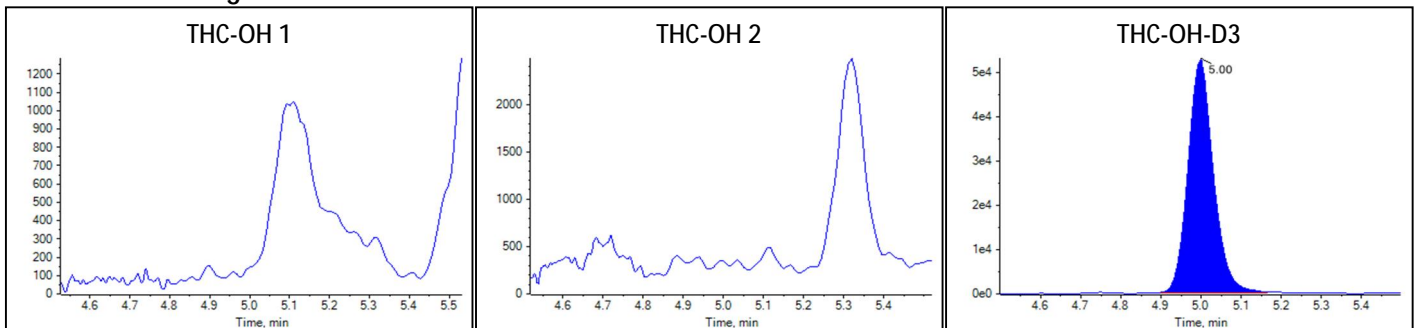
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ9-THC	N/A	N/A		
Δ8-THC	N/A	N/A		
THC-COOH	N/A	N/A		

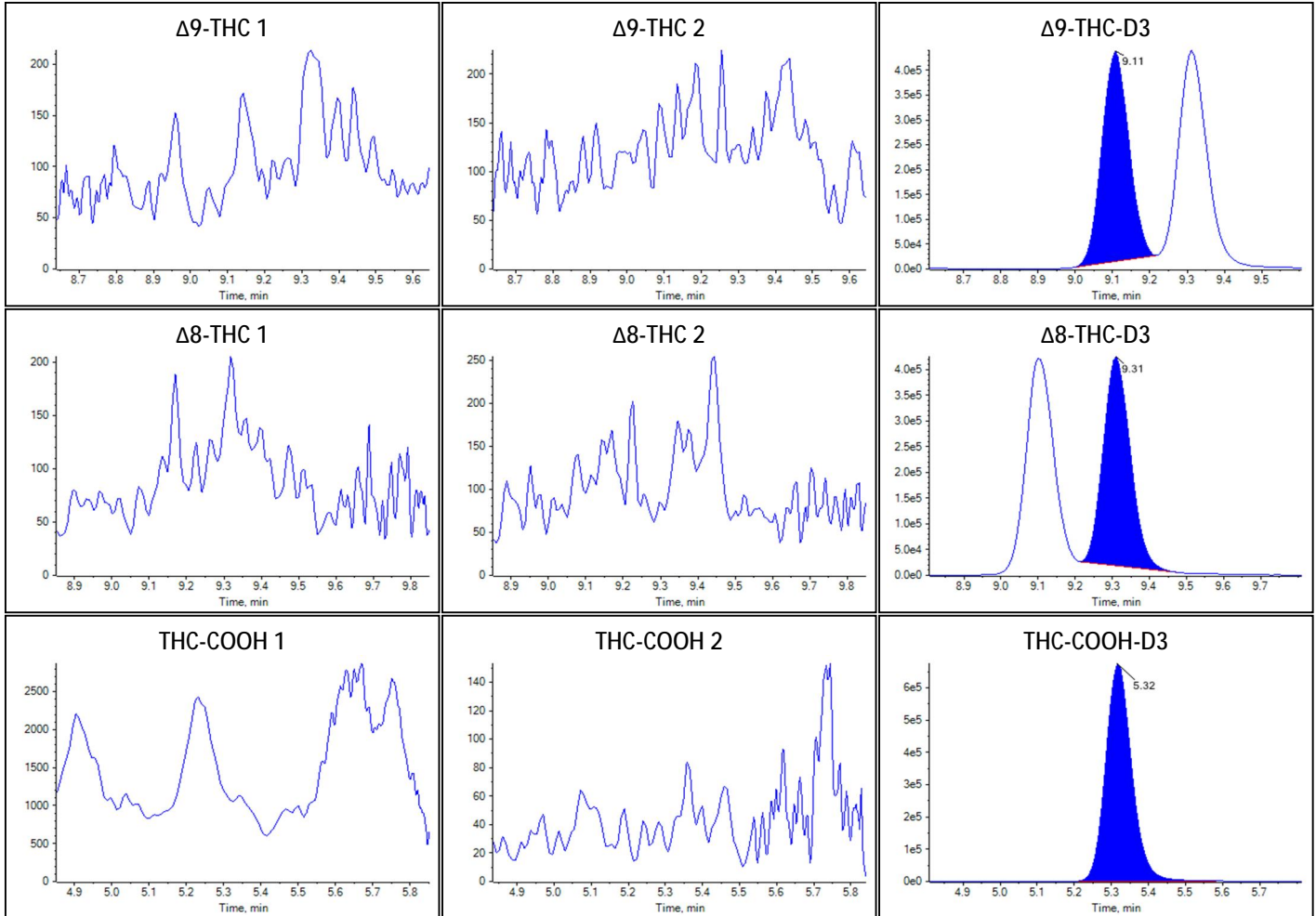
Identification Summary: Negative

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ9-THC 1	315.1 / 193.1	N/A	
Δ9-THC 2	315.1 / 123.0	N/A	N/A
Δ8-THC 1	315.1 / 193.1	N/A	
Δ8-THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	N/A	
THC-COOH 2	343.0 / 191.0	N/A	N/A

Peak Review: Negative



Peak Review: Negative



Sample Summary

Sample Name	0.5 GB_1
Acquisition Date/Time	9/20/2022 12:49:09 AM
Acquisition Method	THC.dam
Batch Name	20220919 JLG_LOD.dab
Results Table	20220919JLG LOD
Sample Type	Unknown
File Name	20220919 JLG LOD.wiff
Position	62
Sample Comment	

Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	7.469e-2	5.616e-1		
Δ9-THC	1.728e-2	6.205e-1		
Δ8-THC	1.314e-2	6.929e-1		

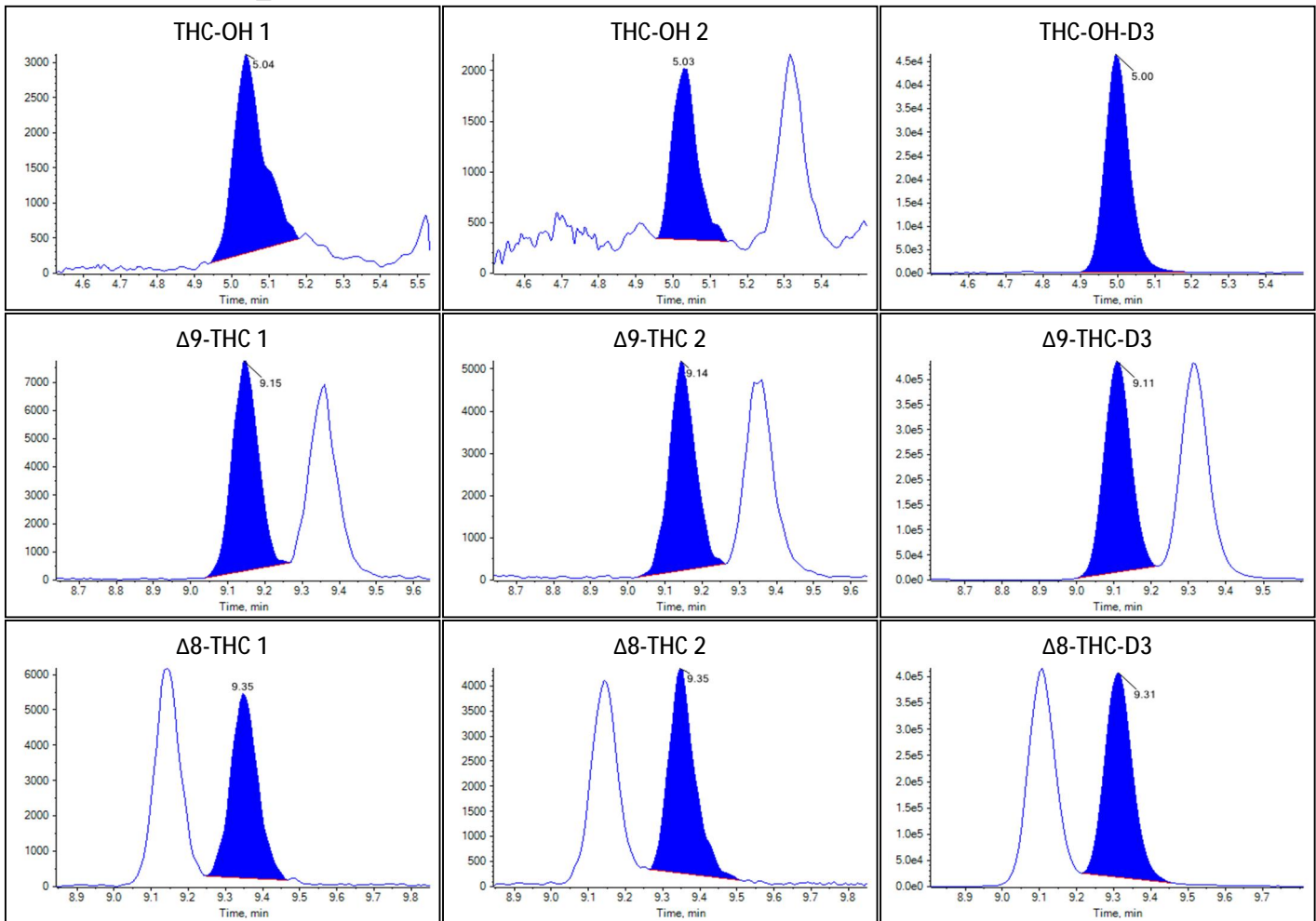
Quantitative Analytes Report

THC-COOH	2.549e-1	2.432e0	
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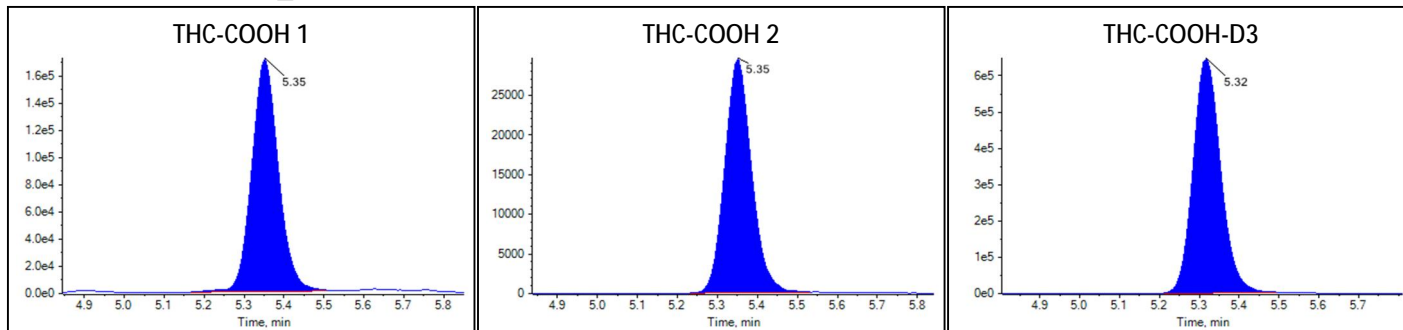
Identification Summary: 0.5 GB_1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.504(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.667(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.749(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.173(Pass)

Peak Review: 0.5 GB_1



Peak Review: 0.5 GB_1



Sample Summary

Sample Name	0.5 GB_2
Acquisition Date/Time	9/20/2022 1:03:15 AM
Acquisition Method	THC.dam
Batch Name	20220919 JLG_LOD.dab
Results Table	20220919JLG LOD
Sample Type	Unknown
File Name	20220919 JLG LOD.wiff
Position	63
Sample Comment	

Quantitative Summary

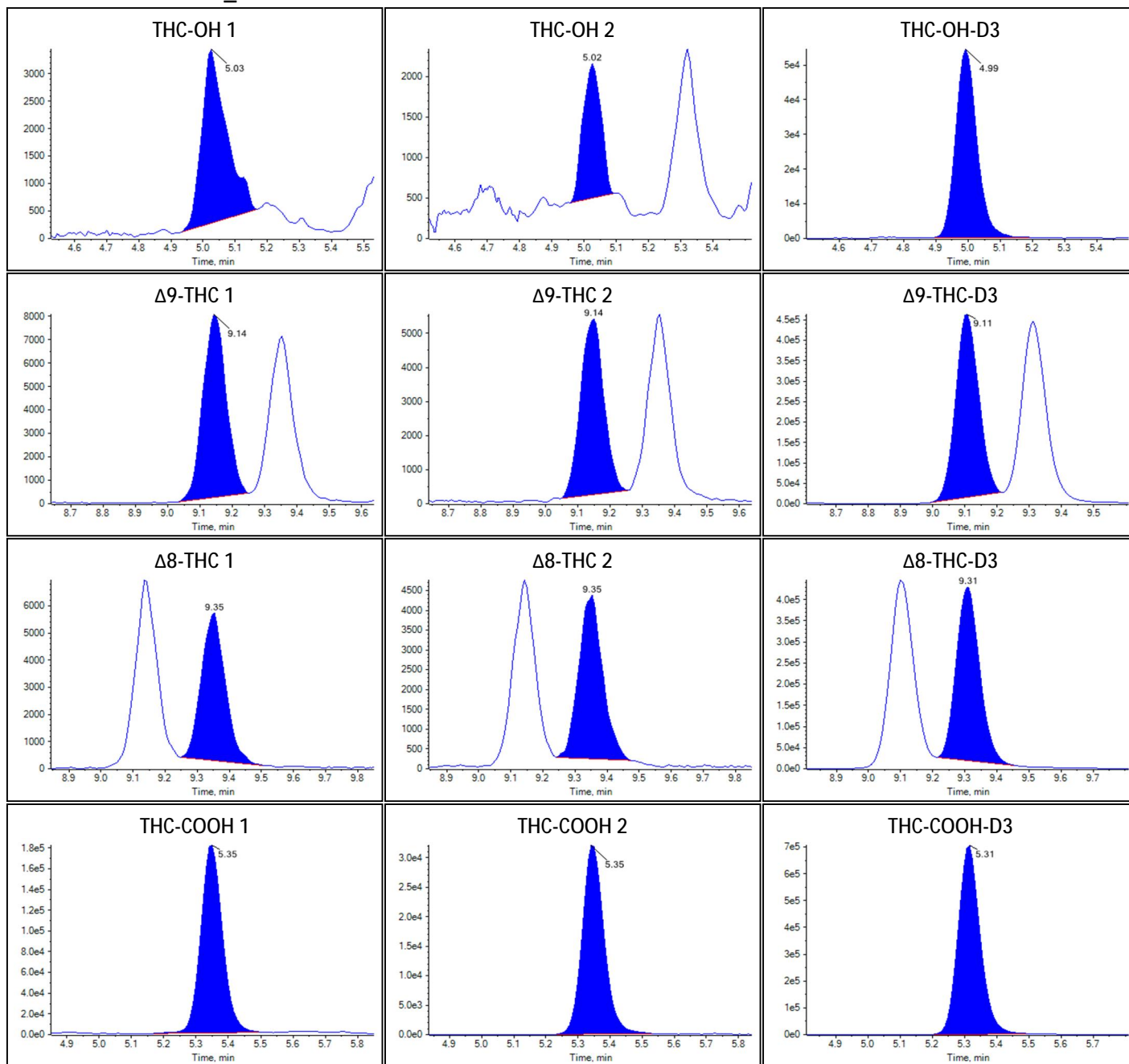
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	6.806e-2	5.098e-1		
Δ9-THC	1.759e-2	6.294e-1		
Δ8-THC	1.352e-2	7.068e-1		
THC-COOH	2.523e-1	2.407e0		

Identification Summary: 0.5 GB_2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.382(Fail)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.660(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.762(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.178(Pass)

Peak Review: 0.5 GB_2

Peak Review: 0.5 GB_2



Sample Summary

Quantitative Analytes Report

Sample Name	0.5 GD_1
Acquisition Date/Time	9/20/2022 1:17:17 AM
Acquisition Method	THC.dam
Batch Name	20220919 JLG_LOD.dab
Results Table	20220919JLG LOD
Sample Type	Unknown
File Name	20220919 JLG LOD.wiff
Position	64
Sample Comment	

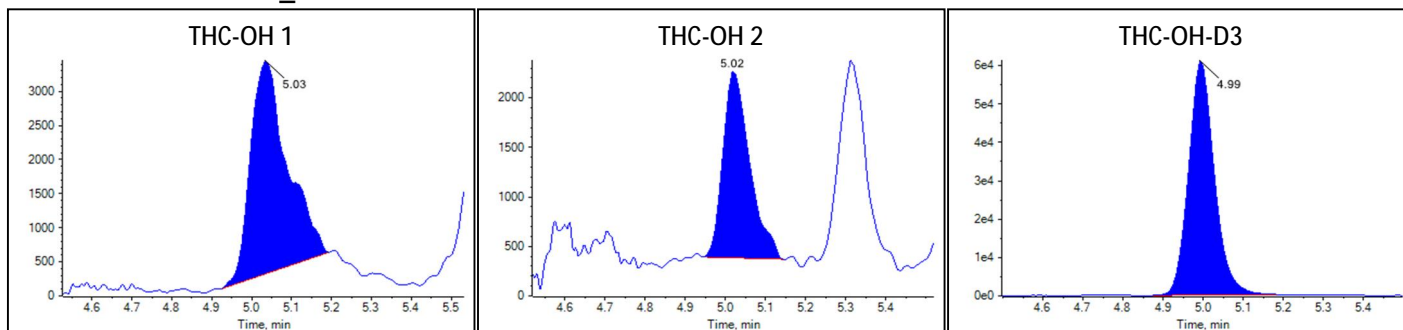
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	7.338e-2	5.513e-1		
Δ9-THC	1.800e-2	6.412e-1		
Δ8-THC	1.299e-2	6.877e-1		
THC-COOH	2.482e-1	2.369e0		

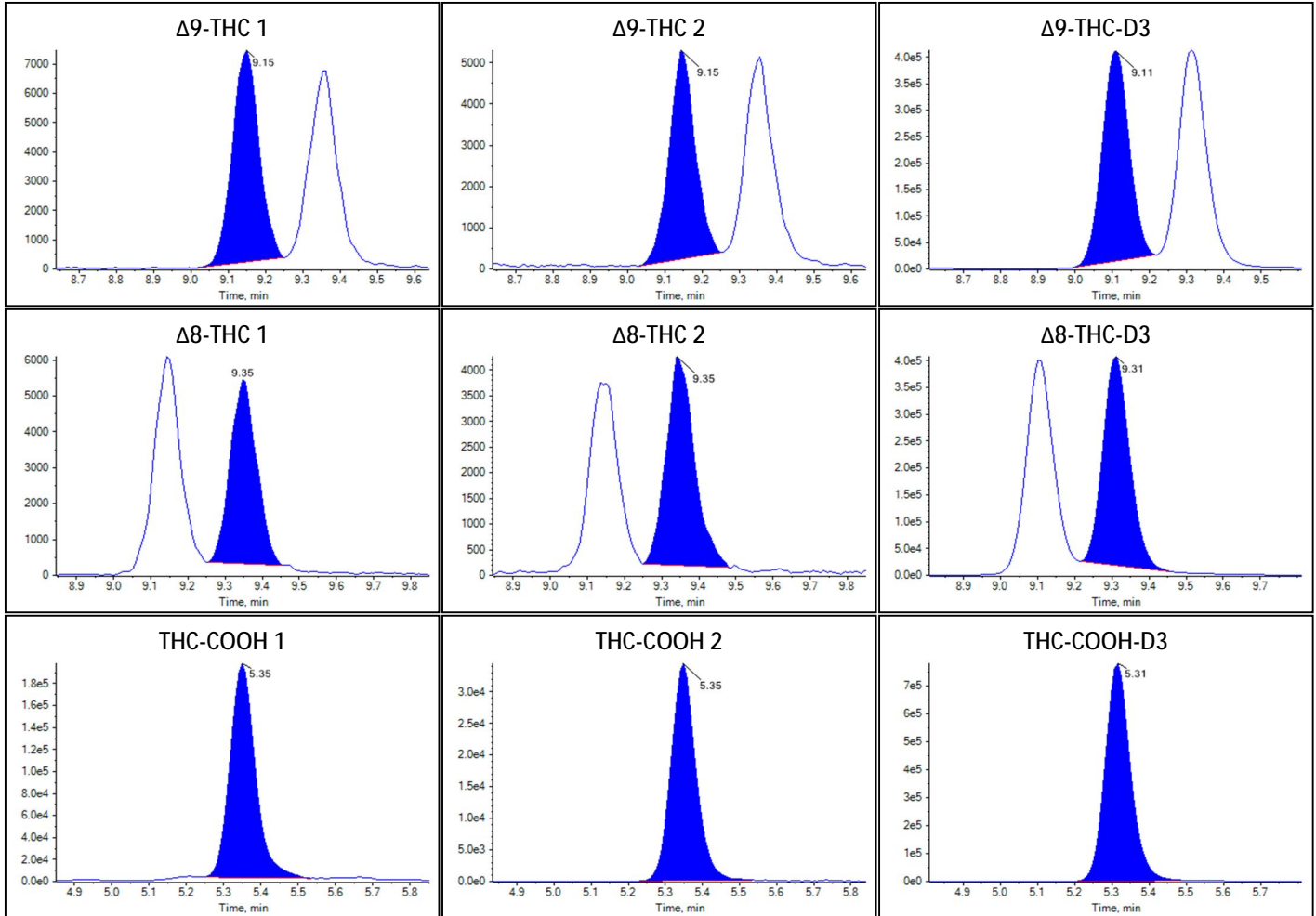
Identification Summary: 0.5 GD_1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.435(Fail)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.677(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.849(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.175(Pass)

Peak Review: 0.5 GD_1



Peak Review: 0.5 GD_1



Sample Summary

Sample Name	0.5 GD_2
Acquisition Date/Time	9/20/2022 1:31:20 AM
Acquisition Method	THC.dam
Batch Name	20220919 JLG_LOD.dab
Results Table	20220919JLG LOD
Sample Type	Unknown
File Name	20220919 JLG LOD.wiff
Position	65
Sample Comment	

Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	8.112e-2	6.117e-1		
Δ9-THC	1.709e-2	6.152e-1		
Δ8-THC	1.297e-2	6.869e-1		

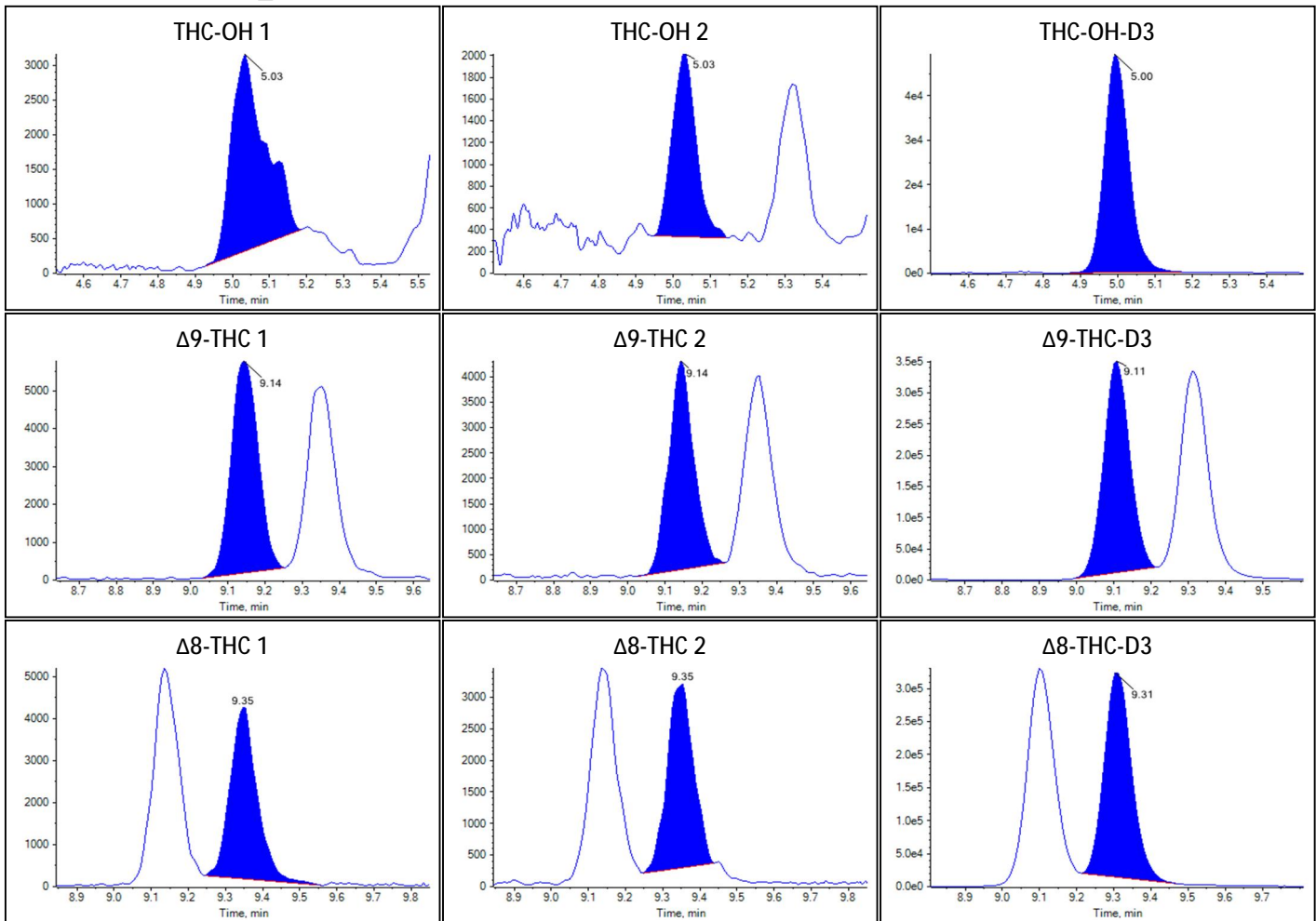
Quantitative Analytes Report

THC-COOH	2.533e-1	2.417e0	
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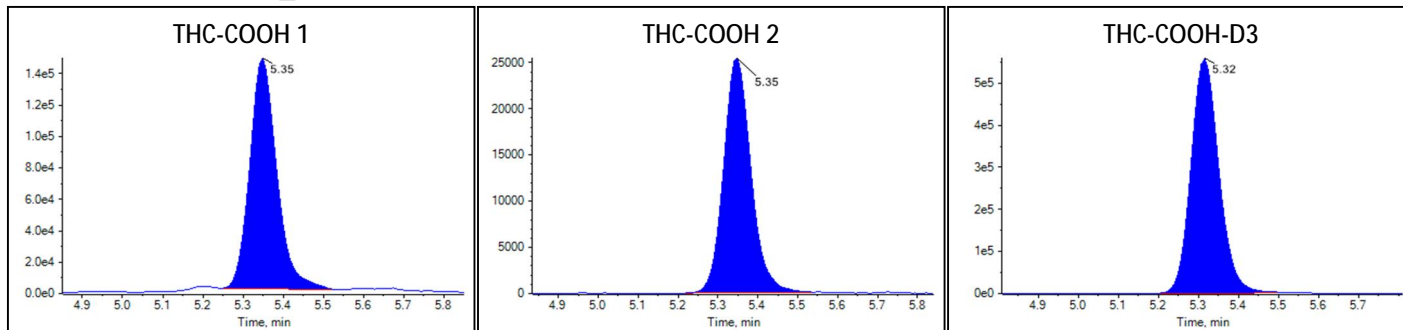
Identification Summary: 0.5 GD_2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.413(Fail)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.681(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.701(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.177(Pass)

Peak Review: 0.5 GD_2



Peak Review: 0.5 GD_2



Sample Summary

Sample Name	0.5 GE_1
Acquisition Date/Time	9/20/2022 1:45:25 AM
Acquisition Method	THC.dam
Batch Name	20220919 JLG_LOD.dab
Results Table	20220919JLG LOD
Sample Type	Unknown
File Name	20220919 JLG LOD.wiff
Position	66
Sample Comment	

Quantitative Summary

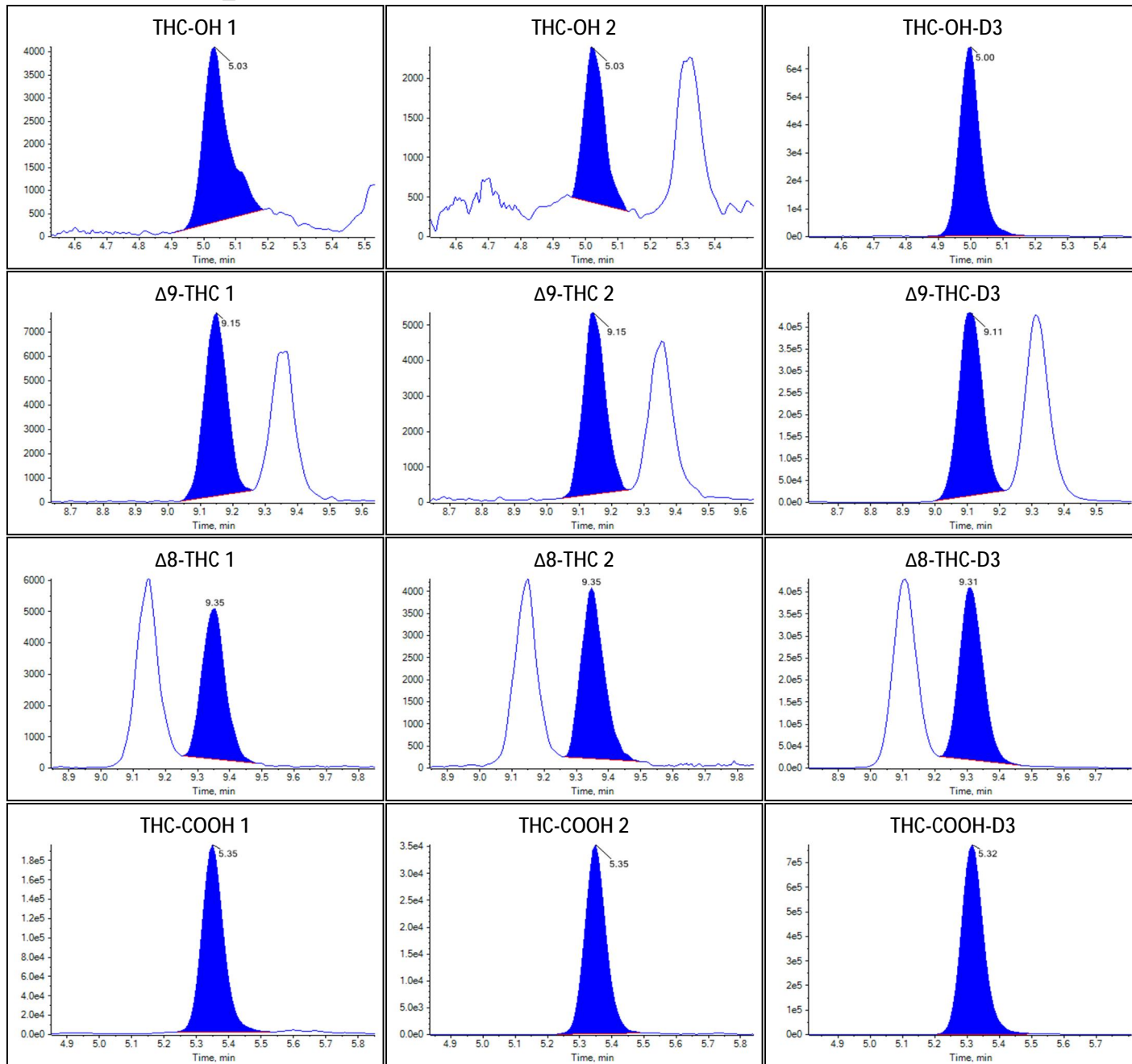
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	6.921e-2	5.188e-1		
Δ9-THC	1.695e-2	6.111e-1		
Δ8-THC	1.219e-2	6.589e-1		
THC-COOH	2.420e-1	2.311e0		

Identification Summary: 0.5 GE_1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.421(Fail)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.672(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.790(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.179(Pass)

Peak Review: 0.5 GE_1

Peak Review: 0.5 GE_1



Sample Summary

Quantitative Analytes Report

Sample Name	0.5 GE_2
Acquisition Date/Time	9/20/2022 1:59:30 AM
Acquisition Method	THC.dam
Batch Name	20220919 JLG_LOD.dab
Results Table	20220919JLG LOD
Sample Type	Unknown
File Name	20220919 JLG LOD.wiff
Position	67
Sample Comment	

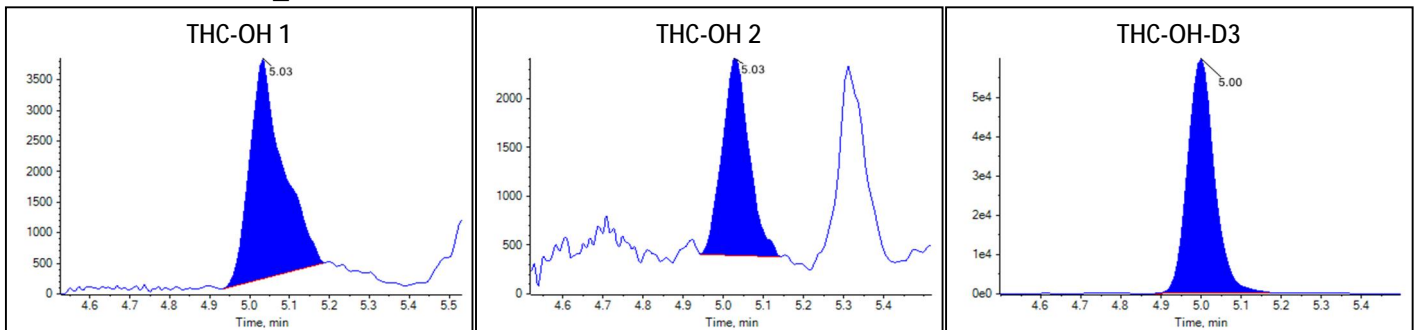
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	7.602e-2	5.720e-1		
Δ9-THC	1.702e-2	6.132e-1		
Δ8-THC	1.316e-2	6.937e-1		
THC-COOH	2.531e-1	2.415e0		

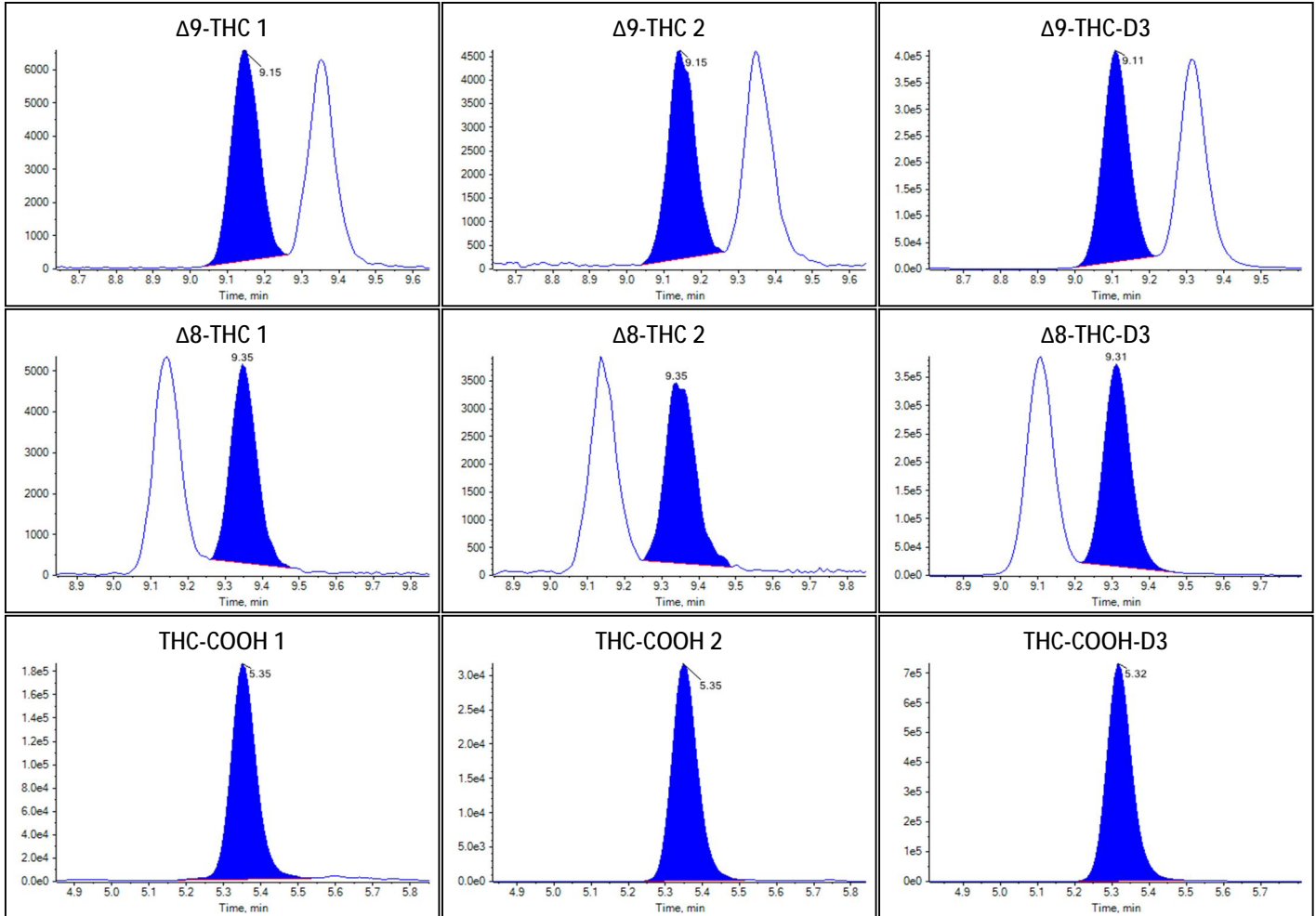
Identification Summary: 0.5 GE_2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.450(Pass)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.687(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.795(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.174(Pass)

Peak Review: 0.5 GE_2



Peak Review: 0.5 GE_2



Sample Summary

Sample Name	0.4 GB_1
Acquisition Date/Time	9/20/2022 2:13:36 AM
Acquisition Method	THC.dam
Batch Name	20220919 JLG_LOD.dab
Results Table	20220919JLG LOD
Sample Type	Unknown
File Name	20220919 JLG LOD.wiff
Position	68
Sample Comment	

Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	5.272e-2	3.901e-1		
Δ9-THC	1.286e-2	4.945e-1		
Δ8-THC	1.004e-2	5.815e-1		

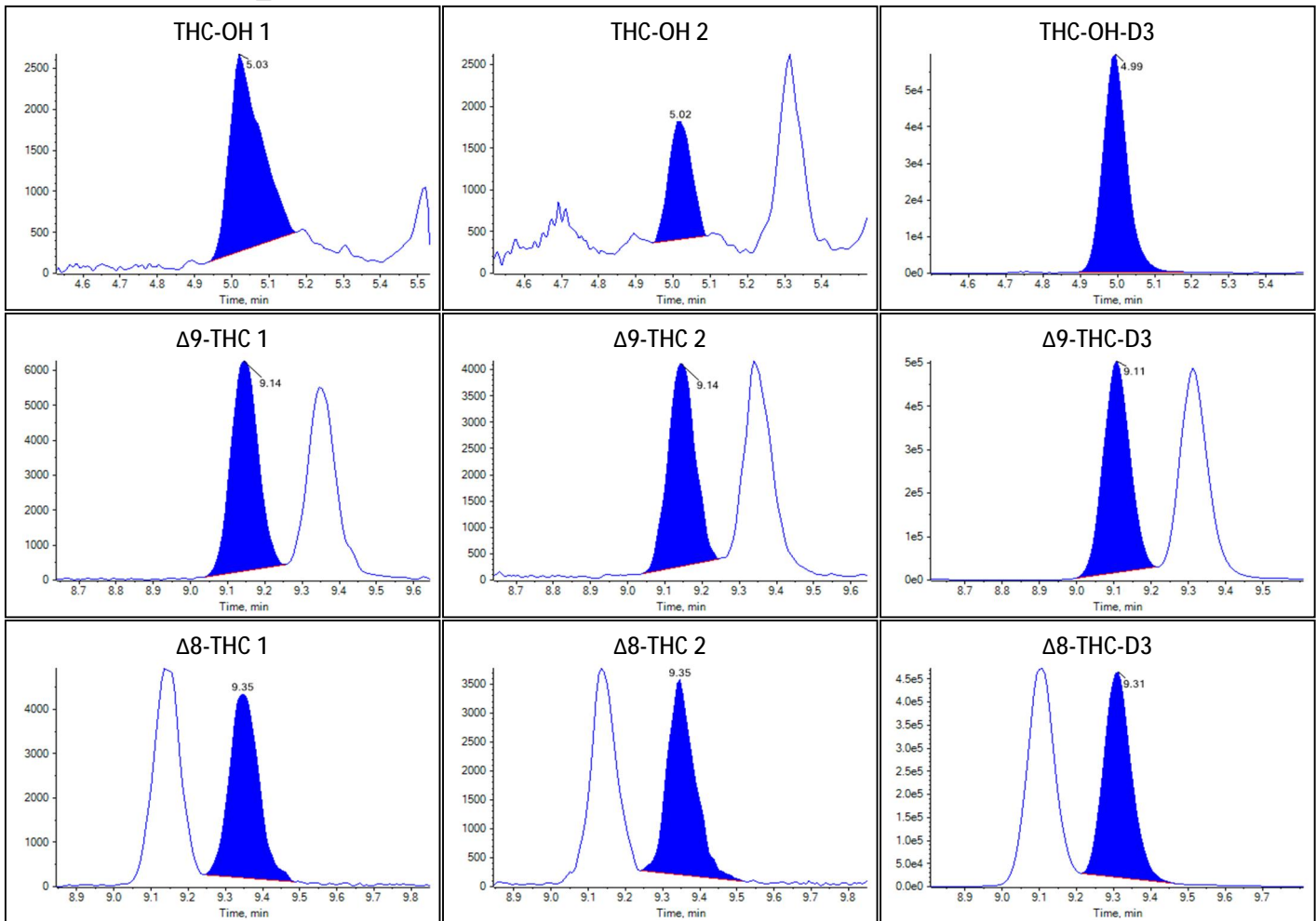
Quantitative Analytes Report

THC-COOH	1.925e-1	1.848e0	
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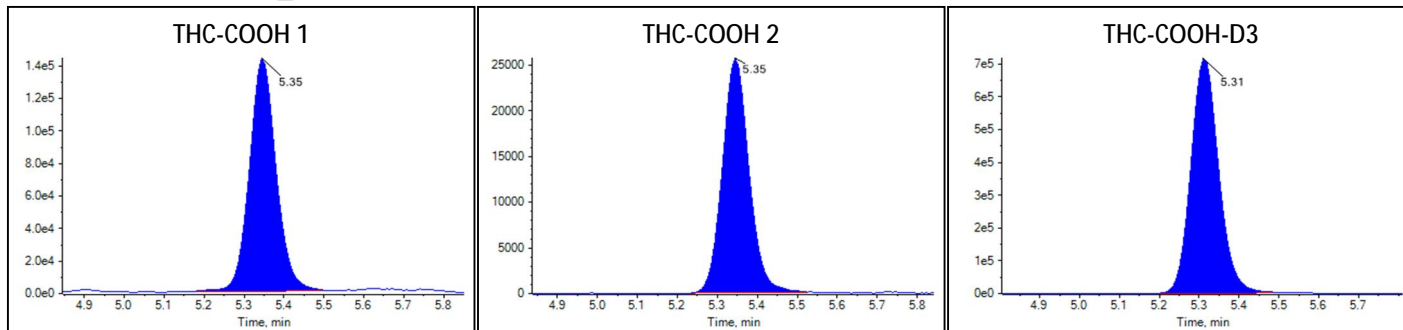
Identification Summary: 0.4 GB_1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.432(Fail)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.638(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.754(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.177(Pass)

Peak Review: 0.4 GB_1



Peak Review: 0.4 GB_1



Sample Summary

Sample Name	0.4 GB_2
Acquisition Date/Time	9/20/2022 2:27:41 AM
Acquisition Method	THC.dam
Batch Name	20220919 JLG_LOD.dab
Results Table	20220919JLG LOD
Sample Type	Unknown
File Name	20220919 JLG LOD.wiff
Position	69
Sample Comment	

Quantitative Summary

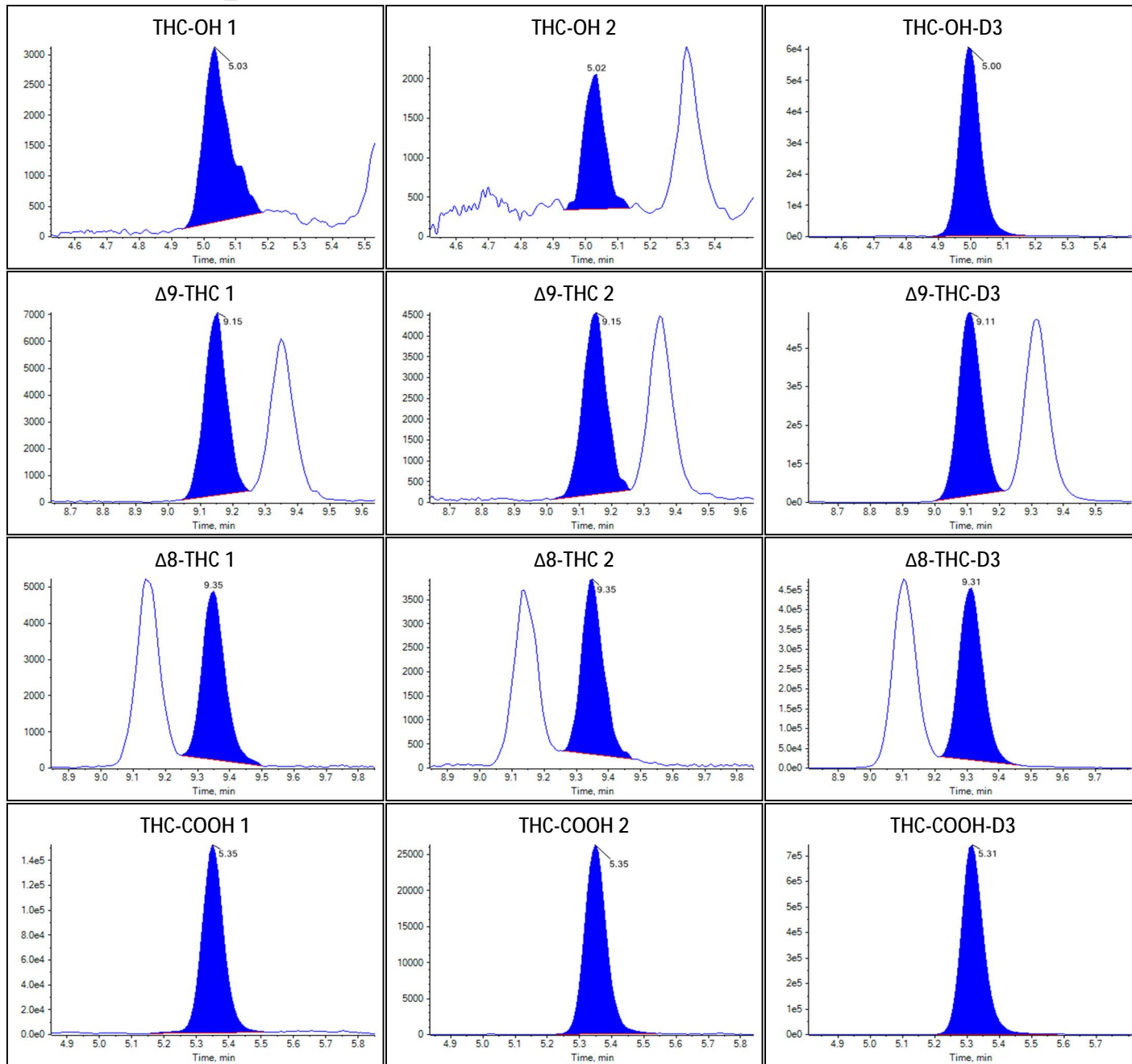
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	5.846e-2	4.349e-1		
Δ 9-THC	1.379e-2	5.212e-1		
Δ 8-THC	1.047e-2	5.970e-1		
THC-COOH	1.996e-1	1.915e0		

Identification Summary: 0.4 GB_2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.483(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.684(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.734(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.176(Pass)

Peak Review: 0.4 GB_2

Peak Review: 0.4 GB_2



Sample Summary

Quantitative Analytes Report

Sample Name	0.4 GD_1
Acquisition Date/Time	9/20/2022 2:41:47 AM
Acquisition Method	THC.dam
Batch Name	20220919 JLG_LOD.dab
Results Table	20220919JLG LOD
Sample Type	Unknown
File Name	20220919 JLG LOD.wiff
Position	70
Sample Comment	

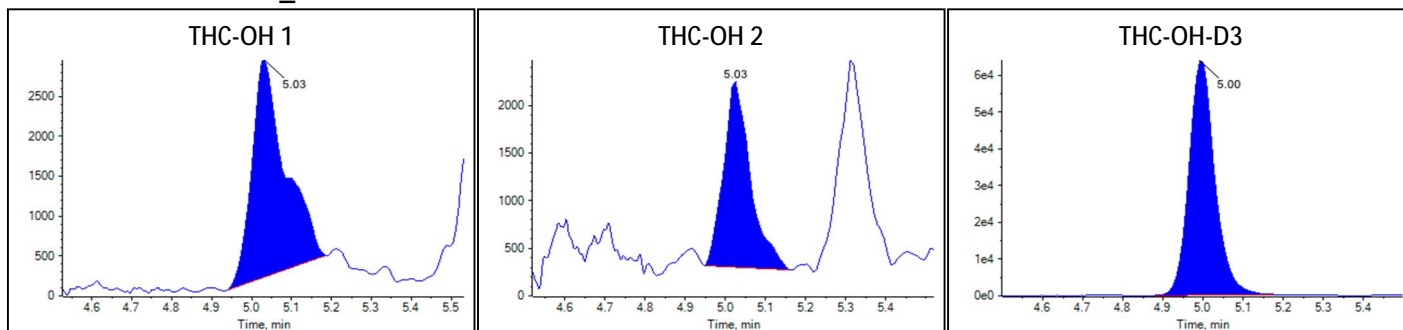
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	5.546e-2	4.115e-1		
Δ9-THC	1.307e-2	5.004e-1		
Δ8-THC	1.013e-2	5.845e-1		
THC-COOH	2.025e-1	1.942e0		

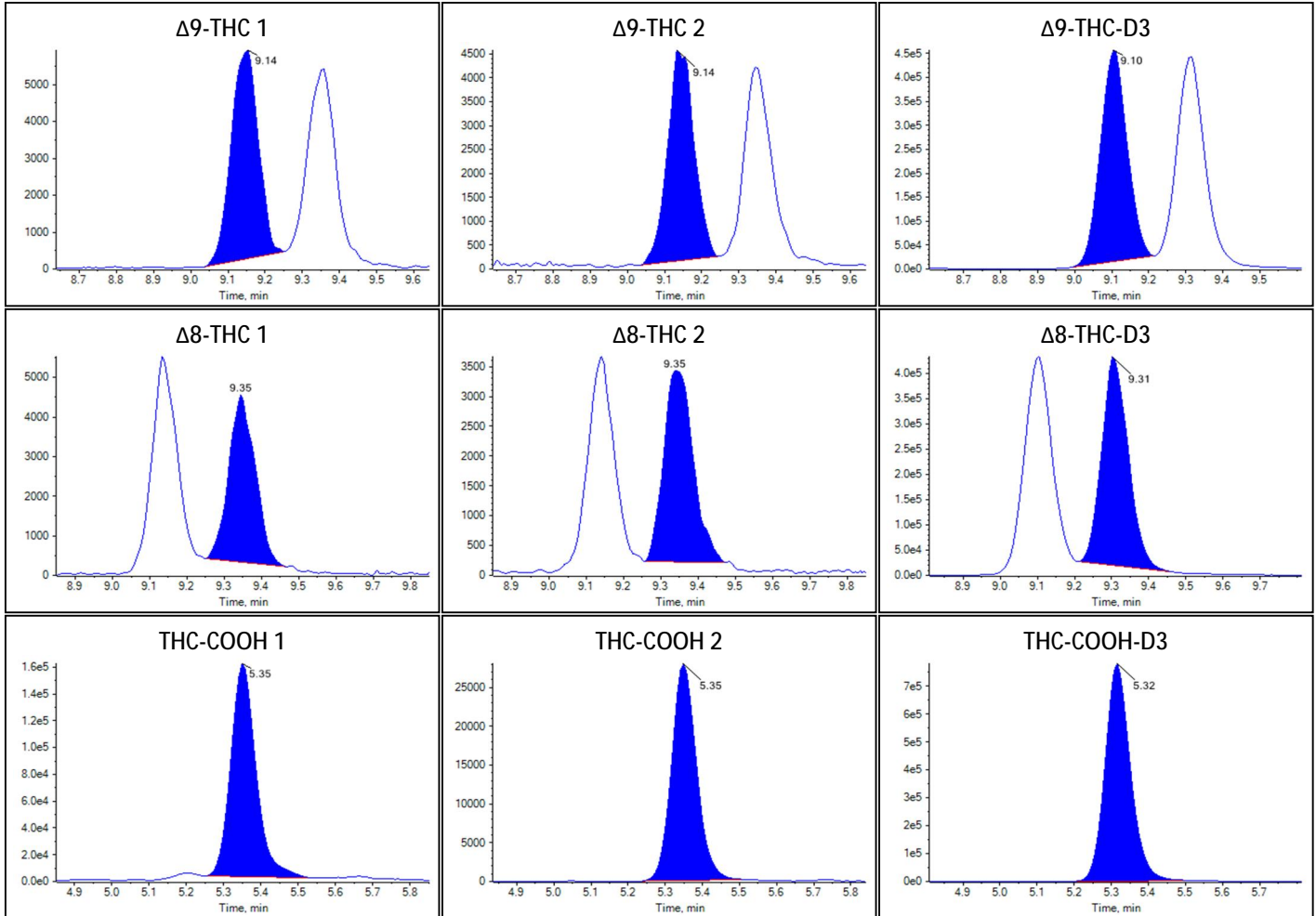
Identification Summary: 0.4 GD_1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.571(Pass)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.765(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.854(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.174(Pass)

Peak Review: 0.4 GD_1



Peak Review: 0.4 GD_1



Sample Summary

Sample Name	0.4 GD_2
Acquisition Date/Time	9/20/2022 2:55:52 AM
Acquisition Method	THC.dam
Batch Name	20220919 JLG_LOD.dab
Results Table	20220919JLG LOD
Sample Type	Unknown
File Name	20220919 JLG LOD.wiff
Position	71
Sample Comment	

Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	5.720e-2	4.251e-1		
Δ9-THC	1.444e-2	5.395e-1		
Δ8-THC	1.090e-2	6.123e-1		

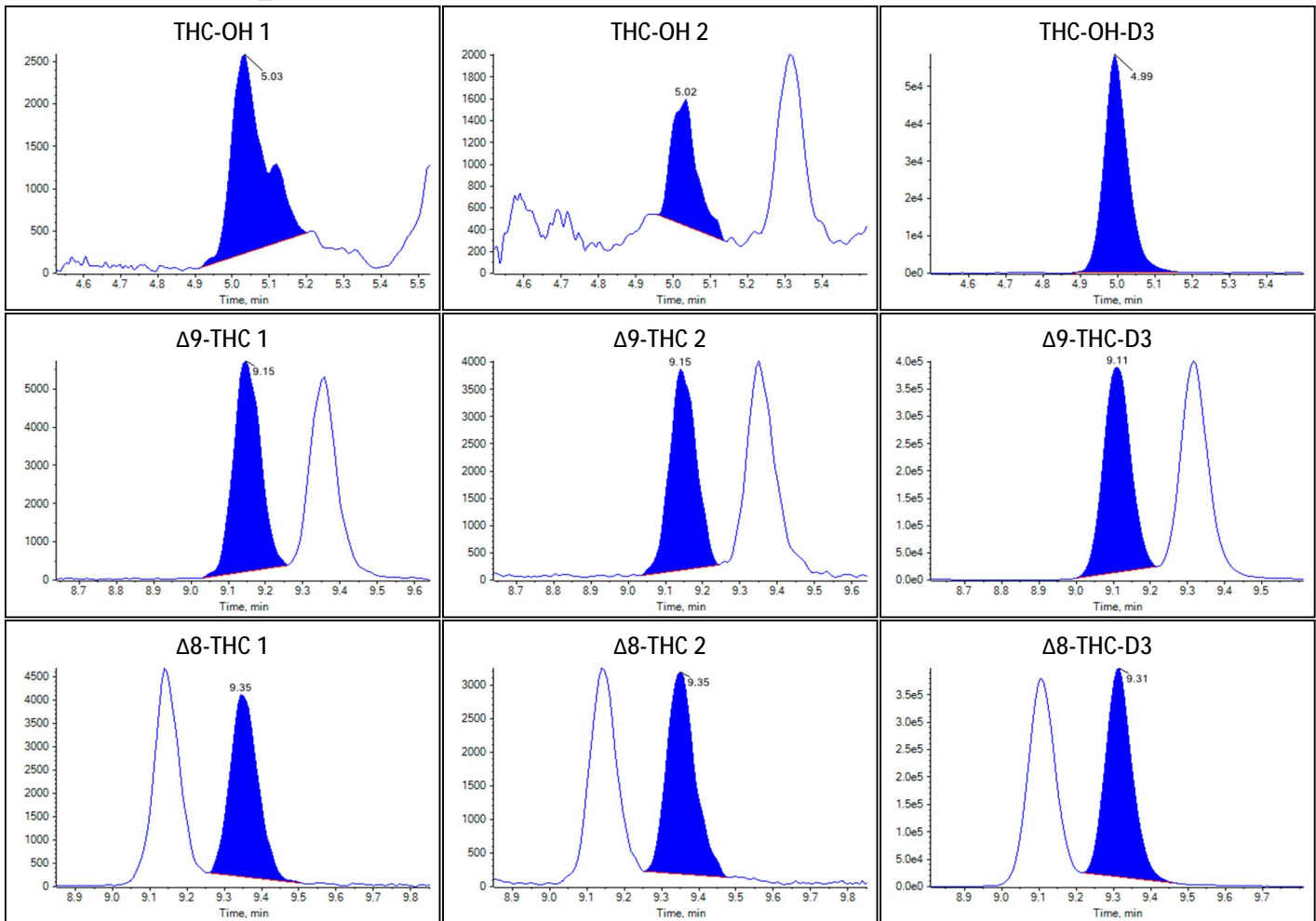
Quantitative Analytes Report

THC-COOH	1.945e-1	1.867e0	
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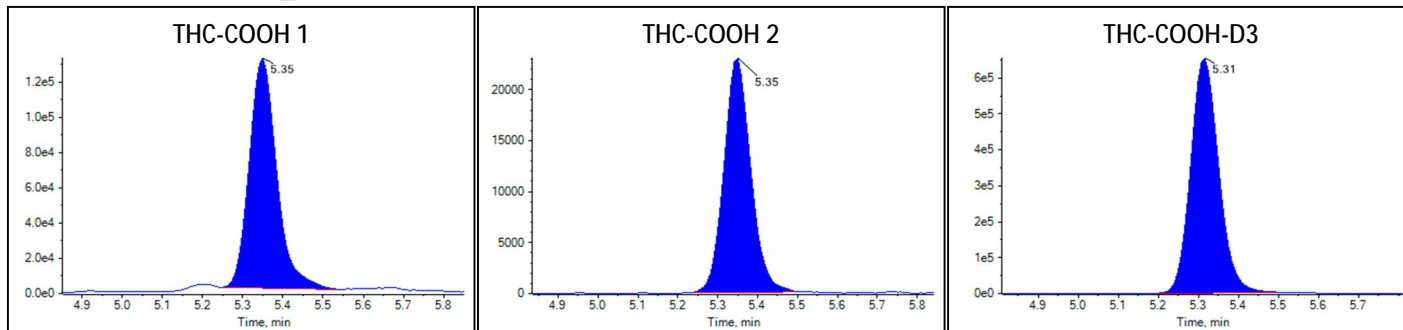
Identification Summary: 0.4 GD_2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.373(Fail)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.661(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.777(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.173(Pass)

Peak Review: 0.4 GD_2



Peak Review: 0.4 GD_2



Sample Summary

Sample Name	0.4 GE_1
Acquisition Date/Time	9/20/2022 3:09:57 AM
Acquisition Method	THC.dam
Batch Name	20220919 JLG_LOD.dab
Results Table	20220919JLG LOD
Sample Type	Unknown
File Name	20220919 JLG LOD.wiff
Position	72
Sample Comment	

Quantitative Summary

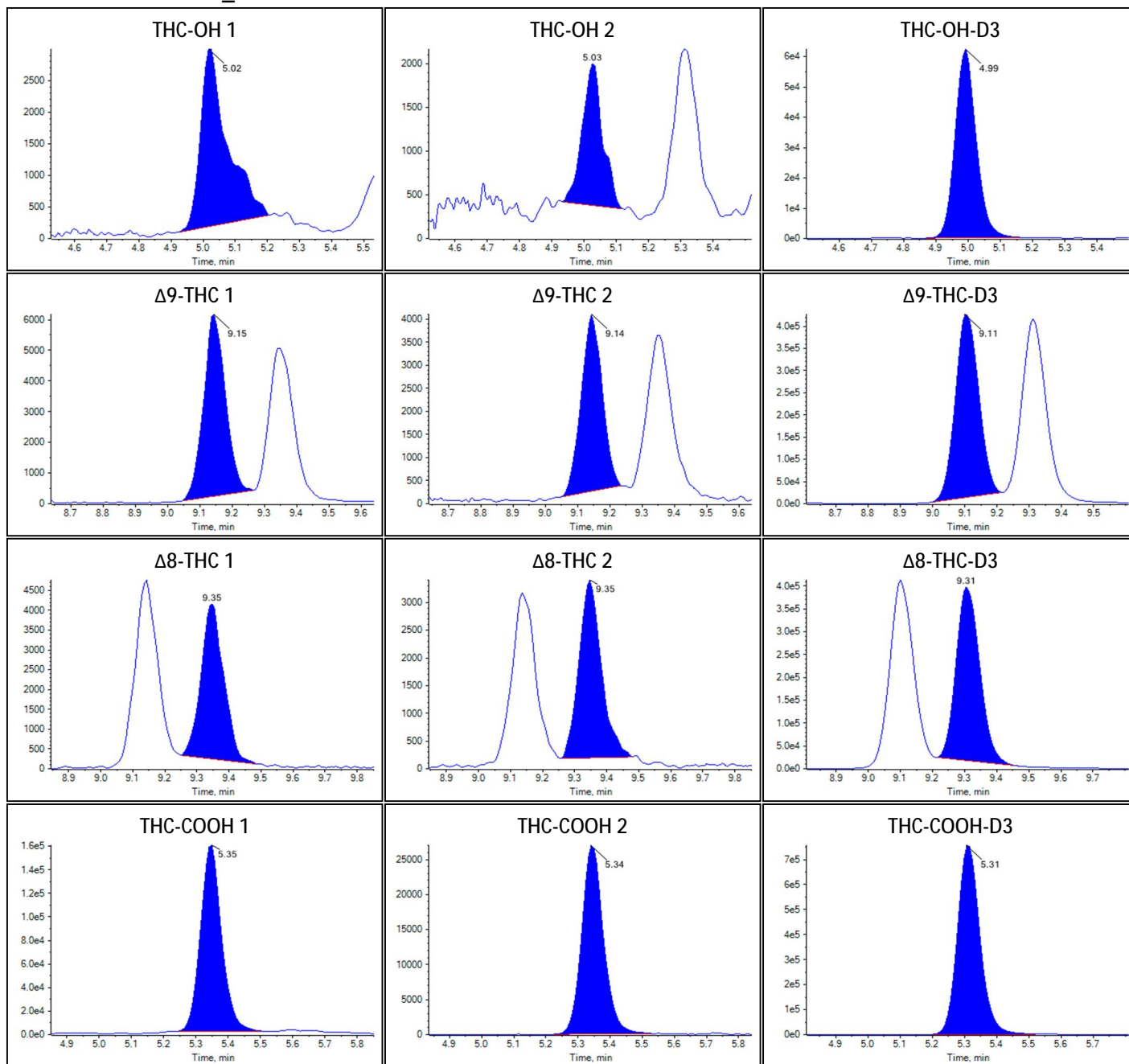
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	5.828e-2	4.335e-1		
Δ9-THC	1.338e-2	5.093e-1		
Δ8-THC	9.893e-3	5.761e-1		
THC-COOH	1.968e-1	1.889e0		

Identification Summary: 0.4 GE_1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.434(Fail)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.621(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.810(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.176(Pass)

Peak Review: 0.4 GE_1

Peak Review: 0.4 GE_1



Sample Summary

Quantitative Analytes Report

Sample Name	0.4 GE_2
Acquisition Date/Time	9/20/2022 3:24:03 AM
Acquisition Method	THC.dam
Batch Name	20220919 JLG_LOD.dab
Results Table	20220919JLG LOD
Sample Type	Unknown
File Name	20220919 JLG LOD.wiff
Position	73
Sample Comment	

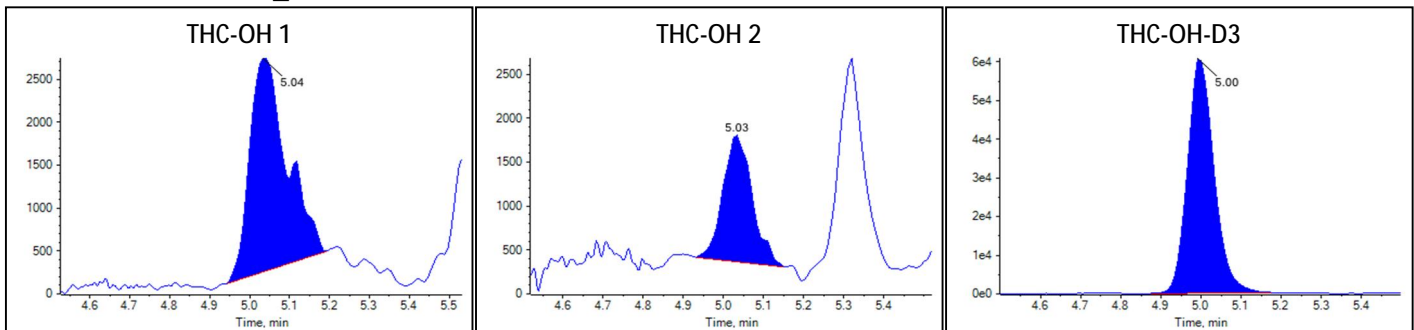
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	5.783e-2	4.300e-1		
Δ9-THC	1.358e-2	5.151e-1		
Δ8-THC	1.064e-2	6.031e-1		
THC-COOH	1.958e-1	1.879e0		

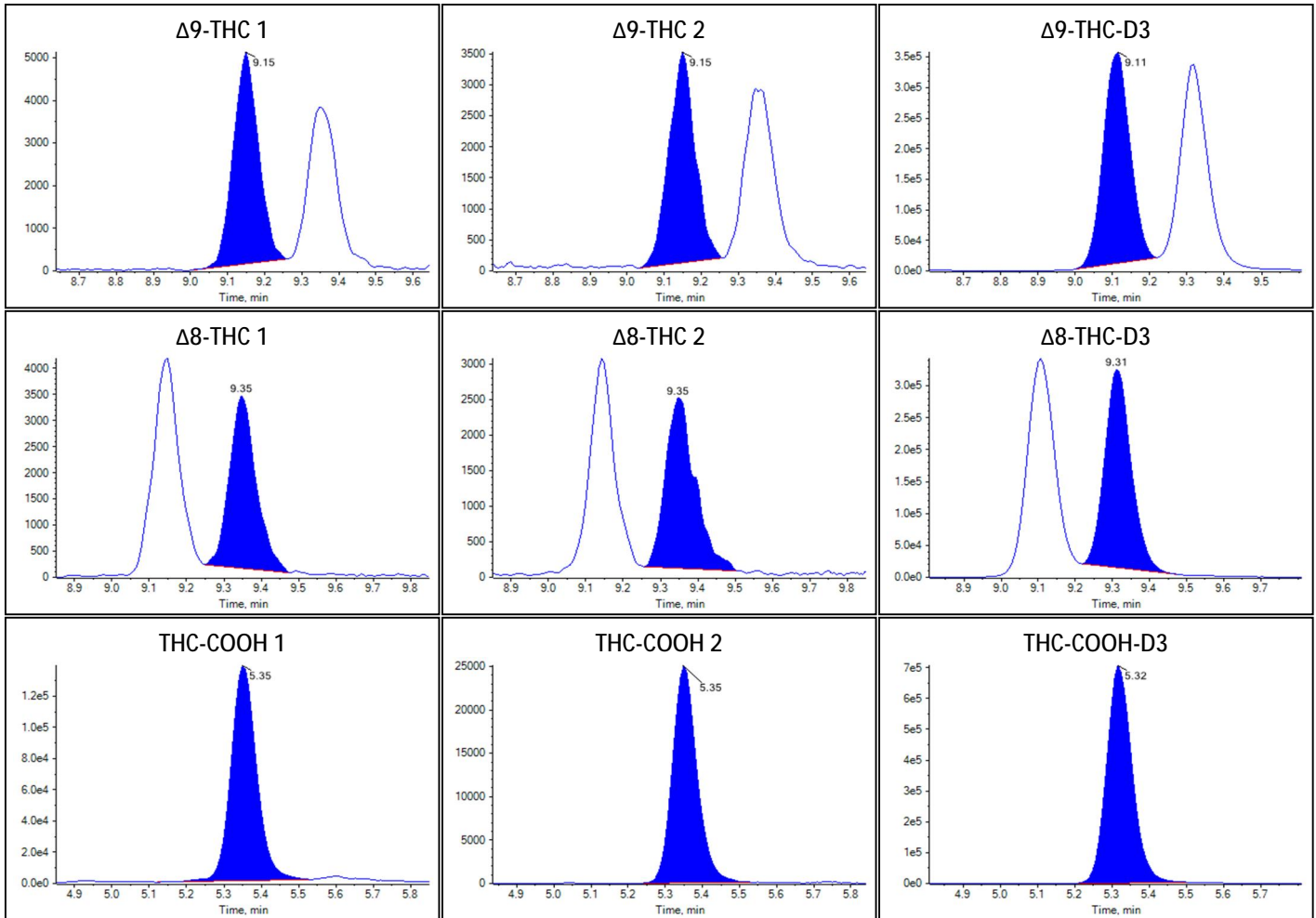
Identification Summary: 0.4 GE_2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.452(Pass)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.712(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.810(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.175(Pass)

Peak Review: 0.4 GE_2



Peak Review: 0.4 GE_2



Cannabinoid Lot Log	
Date	9-19-22
Analyst	TBF
Checked tubes	
Sample preparation	
Sample Pipette	007
Blank Blood	FW
Standards	9-14-22 JLG
Controls	9-14-22 JLG
Standards/Controls Pipette	064
Internal Standard	9-14-22 SB
Internal Standard Pipette	103
0.1 % formic acid in H ₂ O	9-16-22 DMC
Extraction	
SLE Cartridge	820-2-06
MTBE	L322A-3
B: 0.1% formic acid in ACN	8-29-22 SB
A: 0.1 % formic acid in H ₂ O	9-14-22 DMC
Instrumentation	
A: 0.1 % formic acid in H ₂ O	9-1-22 HK
B: 0.1% formic acid in ACN	9-12-22 SB
Column Serial Number	USCGC17438
Instrument	21-1
Sequence Check:	
Notes: LOD FW, FX, GA	



Sample Summary

Sample Name	Standard 1
Acquisition Date/Time	9/19/2022 5:18:24 PM
Acquisition Method	THC.dam
Batch Name	20220919 TSF_LOD.dab
Results Table	20220919TSF LOD
Sample Type	Standard
File Name	20220919 TSF LOD.wiff
Position	30
Sample Comment	

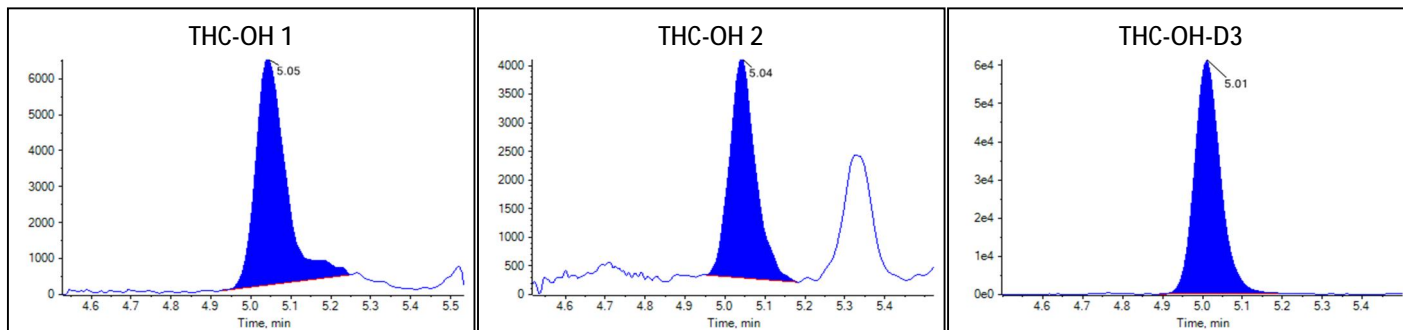
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.1210	0.974		
Δ^9 -THC	0.0303	1.038		
Δ^8 -THC	0.0232	1.071		
THC-COOH	0.5225	4.686		

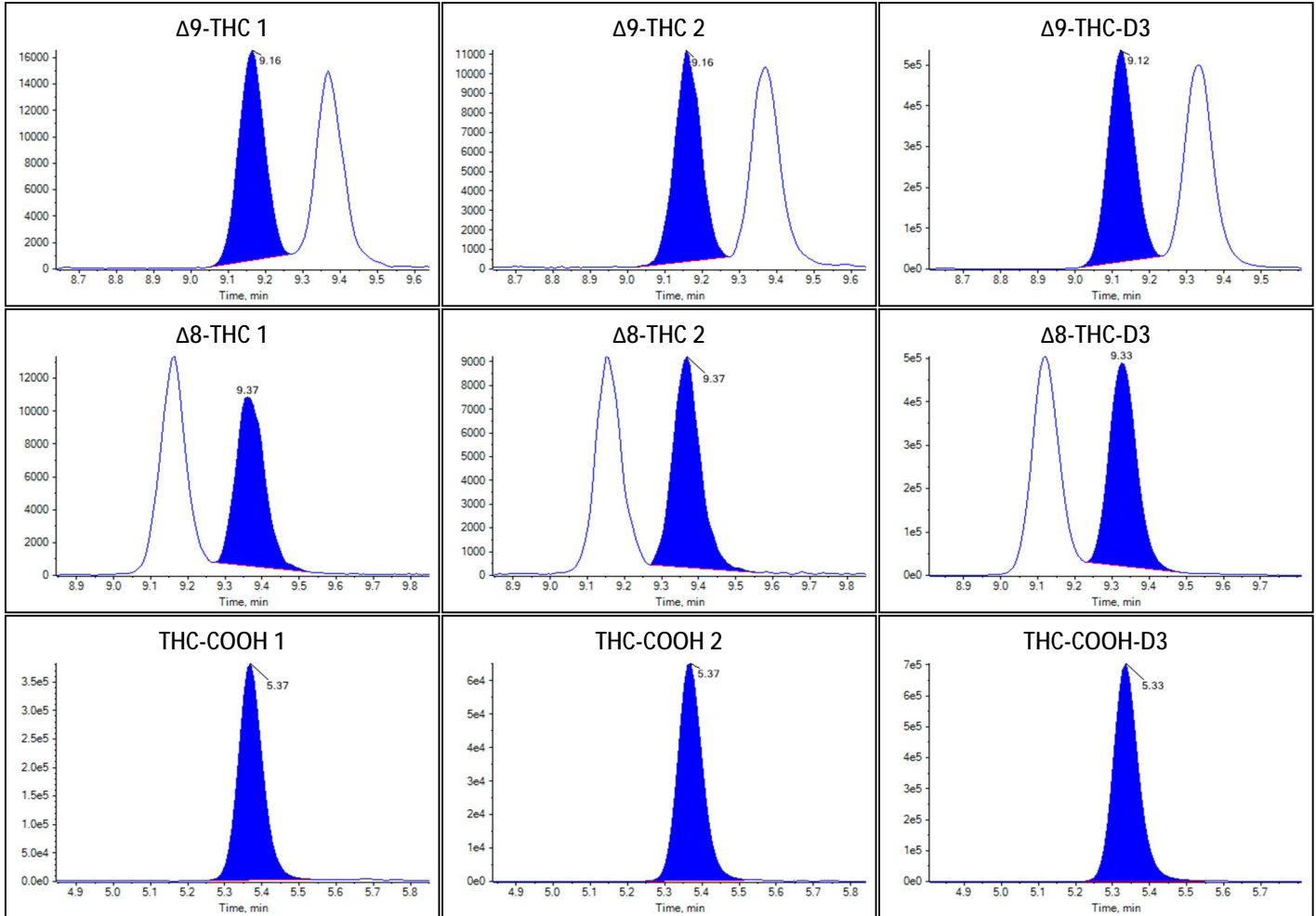
Identification Summary: Standard 1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.007(Pass)	
THC-OH 2	331.1 / 105.1	1.006(Pass)	0.523(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.004(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.004(Pass)	0.686(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.004(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.004(Pass)	0.812(Pass)
THC-COOH 1	343.0 / 299.1	1.006(Pass)	
THC-COOH 2	343.0 / 191.0	1.006(Pass)	0.174(Pass)

Peak Review: Standard 1



Peak Review: Standard 1



Sample Summary

Sample Name	Standard 2
Acquisition Date/Time	9/19/2022 5:32:29 PM
Acquisition Method	THC.dam
Batch Name	20220919 TSF_LOD.dab
Results Table	20220919TSF LOD
Sample Type	Standard
File Name	20220919 TSF LOD.wiff
Position	31
Sample Comment	

Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.5013	4.101		
Δ9-THC	0.1619	4.766		
Δ8-THC	0.1214	4.662		

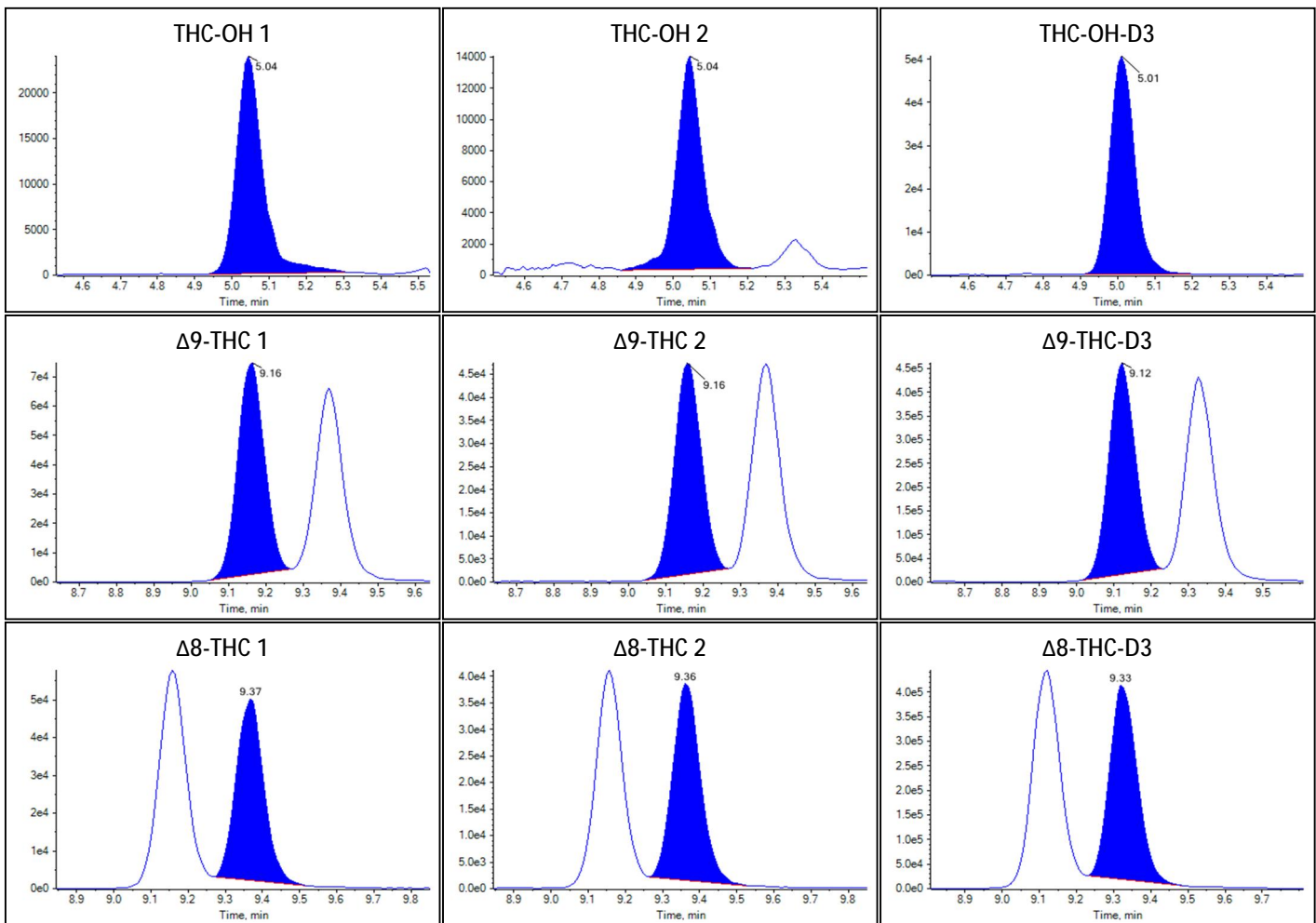
Quantitative Analytes Report

THC-COOH	1.0635	9.828	
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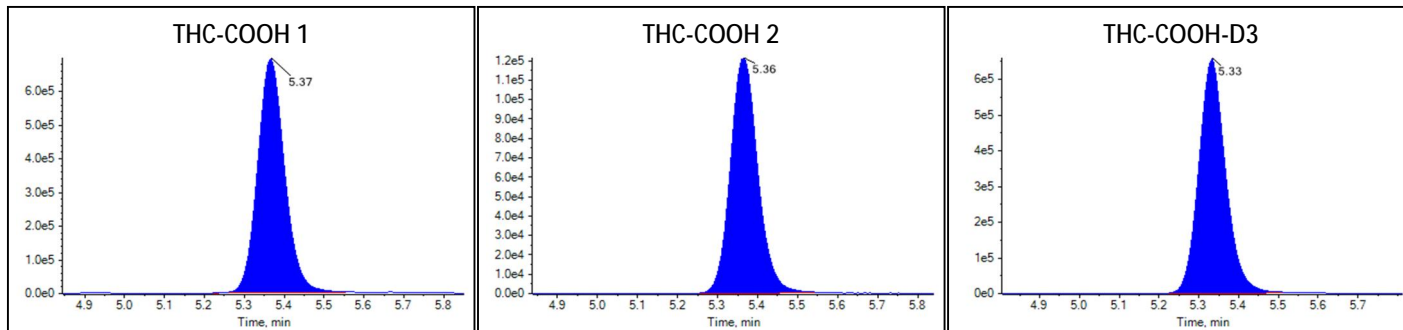
Identification Summary: Standard 2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.007(Pass)	
THC-OH 2	331.1 / 105.1	1.006(Pass)	0.567(Pass)
Δ 9-THC 1	315.1 / 193.1	1.004(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.004(Pass)	0.645(Pass)
Δ 8-THC 1	315.1 / 193.1	1.004(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.004(Pass)	0.777(Pass)
THC-COOH 1	343.0 / 299.1	1.006(Pass)	
THC-COOH 2	343.0 / 191.0	1.006(Pass)	0.177(Pass)

Peak Review: Standard 2



Peak Review: Standard 2



Sample Summary

Sample Name	Standard 3
Acquisition Date/Time	9/19/2022 5:46:34 PM
Acquisition Method	THC.dam
Batch Name	20220919 TSF_LOD.dab
Results Table	20220919TSF LOD
Sample Type	Standard
File Name	20220919 TSF LOD.wiff
Position	32
Sample Comment	

Quantitative Summary

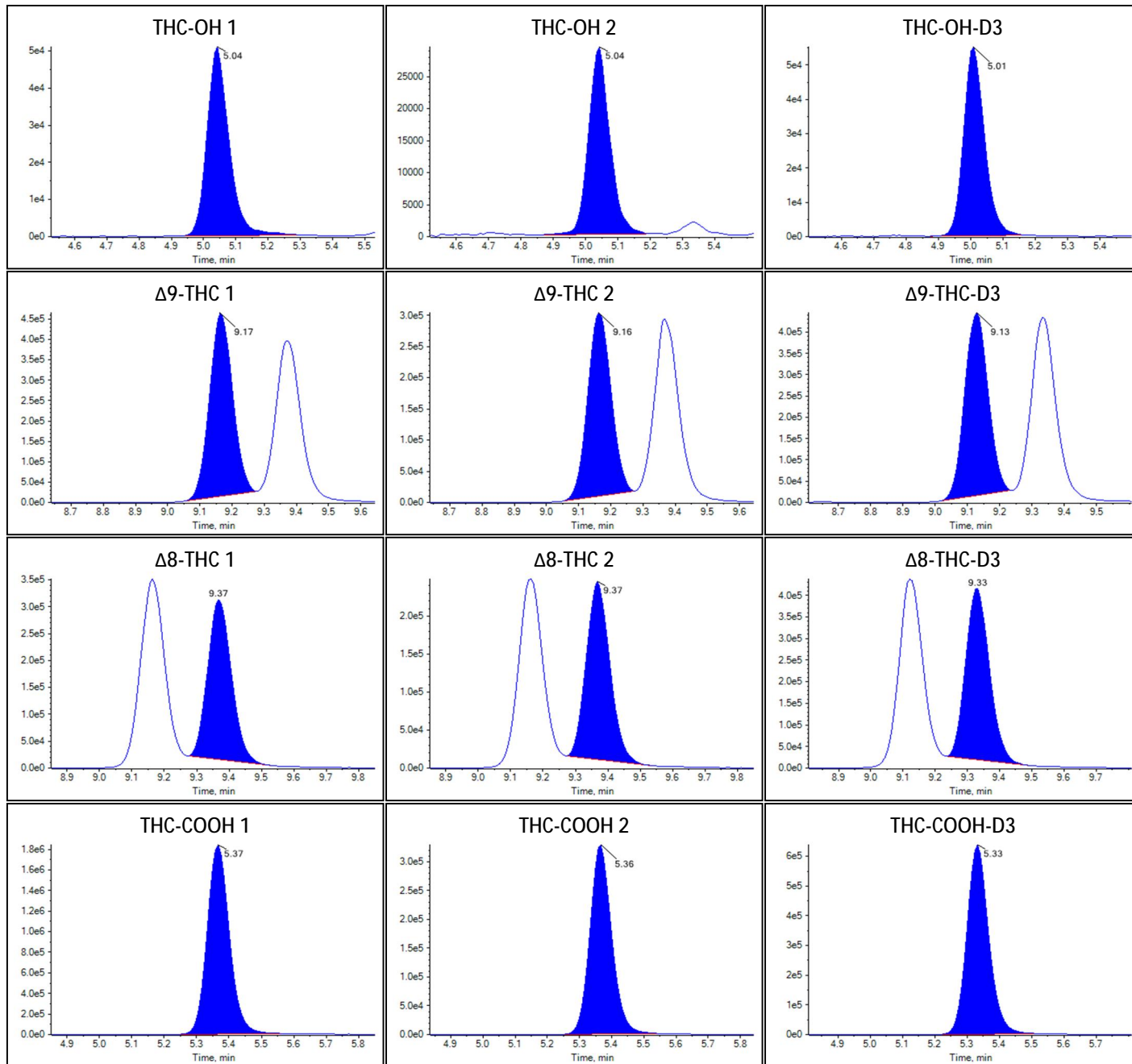
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.9737	7.987		
Δ 9-THC	1.0328	30.513		
Δ 8-THC	0.7452	29.274		
THC-COOH	2.9183	27.456		

Identification Summary: Standard 3

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.007(Pass)	
THC-OH 2	331.1 / 105.1	1.006(Pass)	0.556(Pass)
Δ 9-THC 1	315.1 / 193.1	1.004(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.004(Pass)	0.662(Pass)
Δ 8-THC 1	315.1 / 193.1	1.004(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.004(Pass)	0.782(Pass)
THC-COOH 1	343.0 / 299.1	1.006(Pass)	
THC-COOH 2	343.0 / 191.0	1.006(Pass)	0.175(Pass)

Peak Review: Standard 3

Peak Review: Standard 3



Sample Summary

Quantitative Analytes Report

Sample Name	Standard 4
Acquisition Date/Time	9/19/2022 6:00:40 PM
Acquisition Method	THC.dam
Batch Name	20220919 TSF_LOD.dab
Results Table	20220919TSF LOD
Sample Type	Standard
File Name	20220919 TSF LOD.wiff
Position	33
Sample Comment	

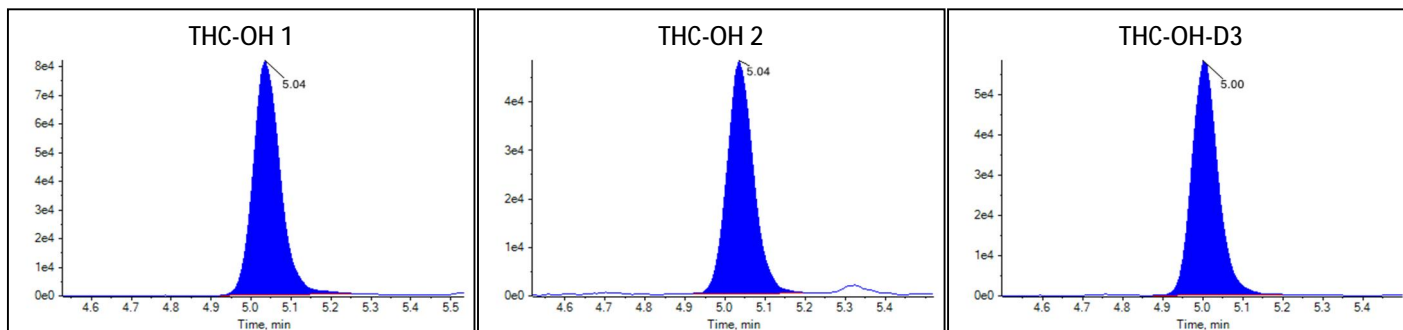
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.4483	11.889		
Δ 9-THC	1.6130	48.861		
Δ 8-THC	1.1840	49.040		
THC-COOH	5.3138	50.223		

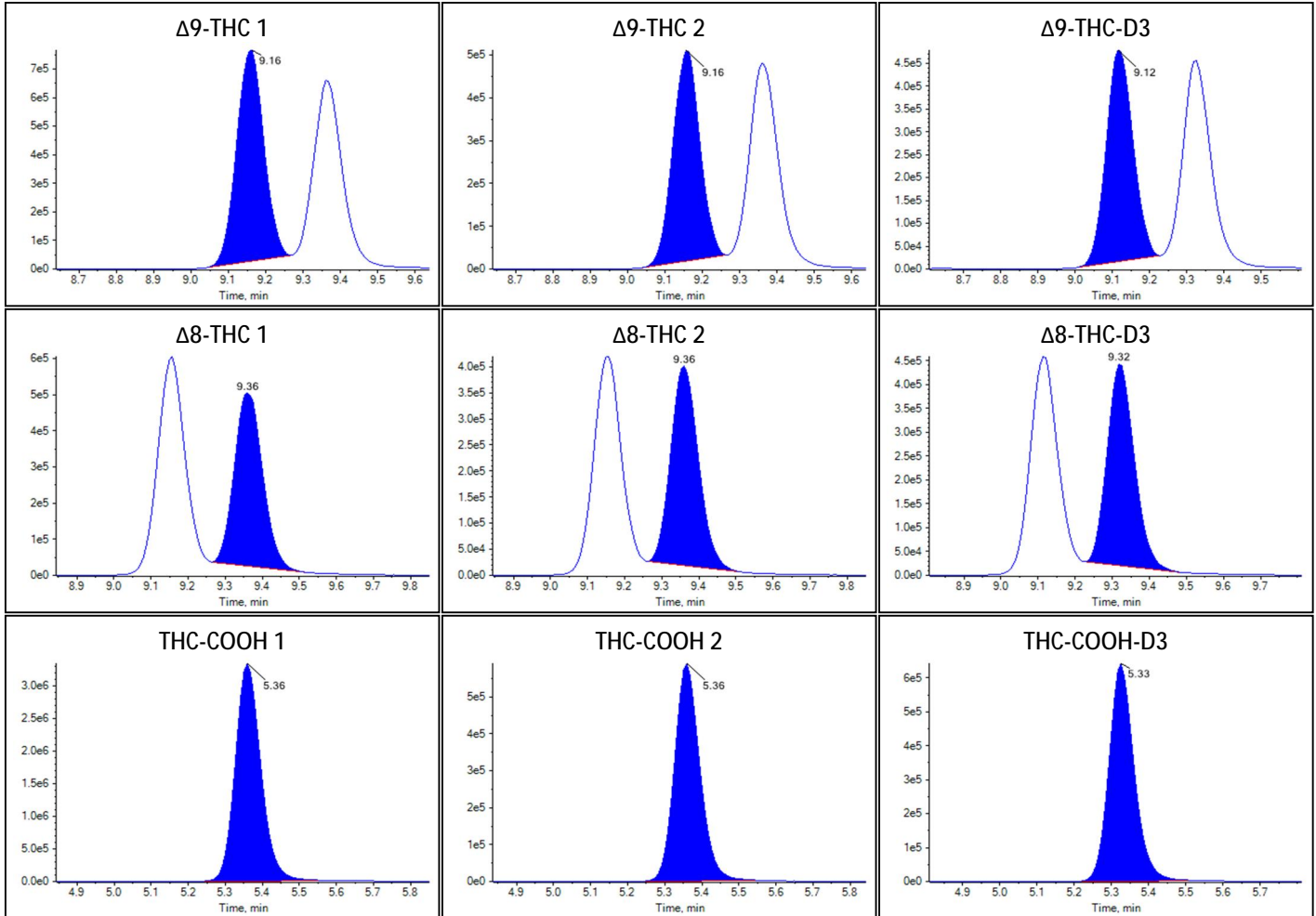
Identification Summary: Standard 4

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.007(Pass)	
THC-OH 2	331.1 / 105.1	1.007(Pass)	0.570(Pass)
Δ 9-THC 1	315.1 / 193.1	1.004(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.004(Pass)	0.660(Pass)
Δ 8-THC 1	315.1 / 193.1	1.004(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.004(Pass)	0.779(Pass)
THC-COOH 1	343.0 / 299.1	1.006(Pass)	
THC-COOH 2	343.0 / 191.0	1.006(Pass)	0.175(Pass)

Peak Review: Standard 4



Peak Review: Standard 4



Sample Summary

Sample Name	Standard 5
Acquisition Date/Time	9/19/2022 6:14:45 PM
Acquisition Method	THC.dam
Batch Name	20220919 TSF_LOD.dab
Results Table	20220919TSF LOD
Sample Type	Standard
File Name	20220919 TSF LOD.wiff
Position	34
Sample Comment	

Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.0400	16.755		
$\Delta 9$ -THC	2.2804	71.428		
$\Delta 8$ -THC	1.6846	75.483		

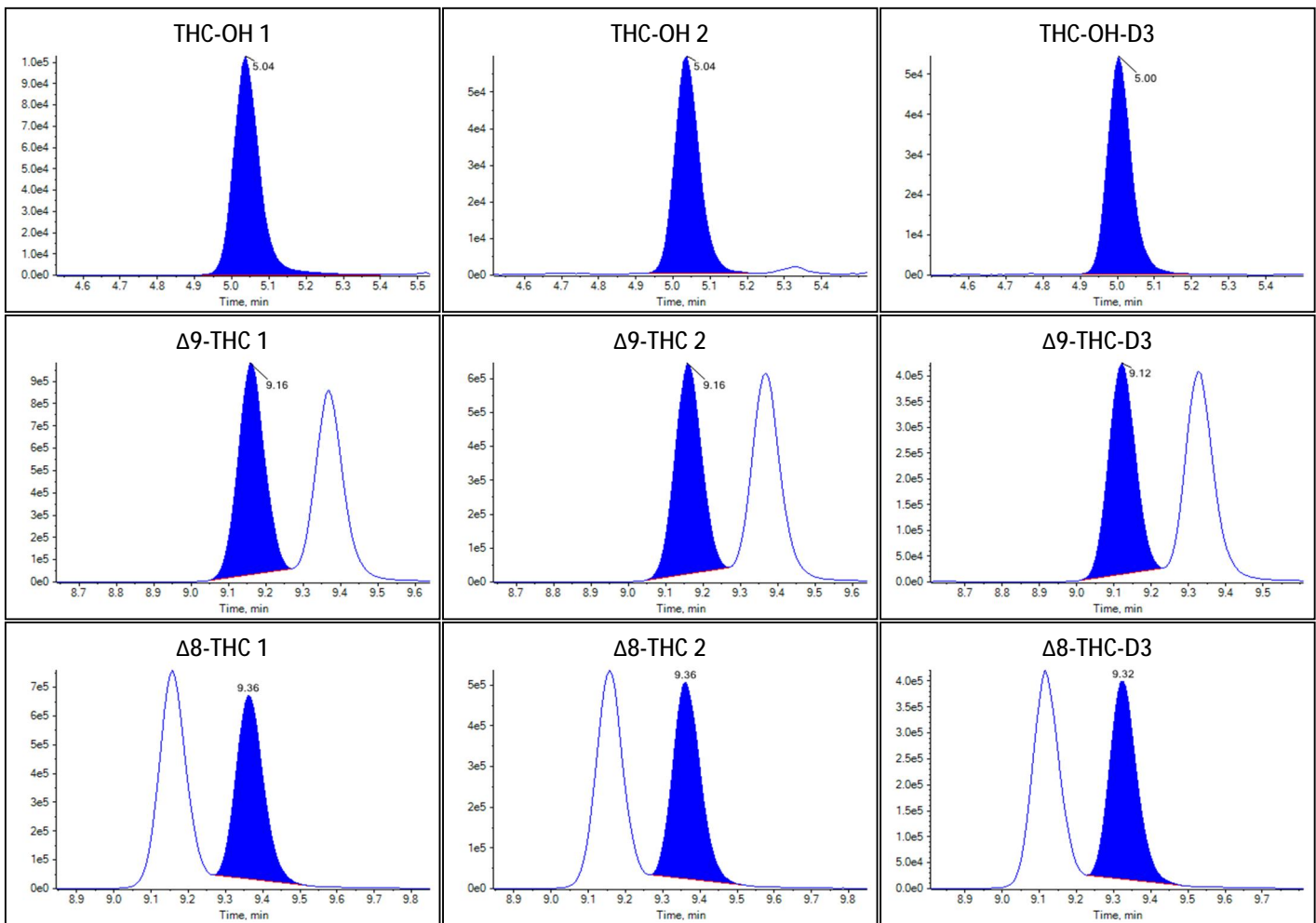
Quantitative Analytes Report

THC-COOH	7.8923	74.729	
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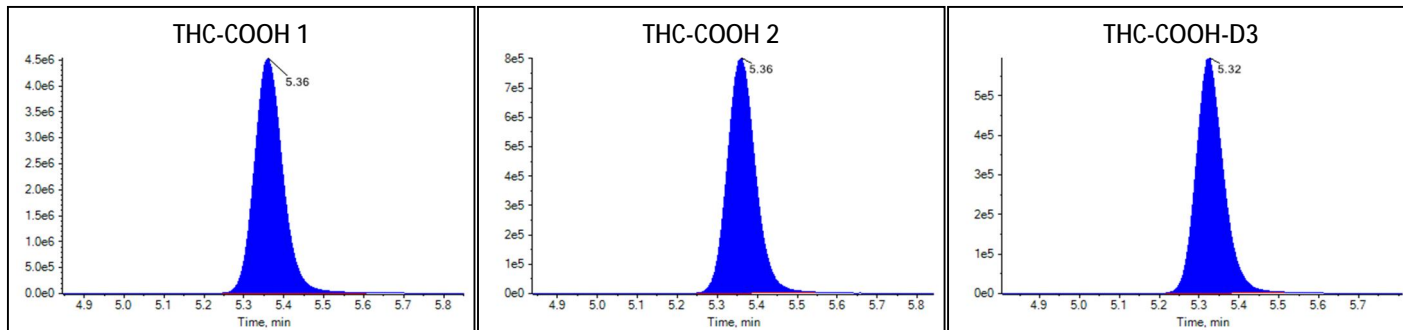
Identification Summary: Standard 5

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.007(Pass)	
THC-OH 2	331.1 / 105.1	1.006(Pass)	0.558(Pass)
Δ 9-THC 1	315.1 / 193.1	1.004(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.004(Pass)	0.662(Pass)
Δ 8-THC 1	315.1 / 193.1	1.004(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.004(Pass)	0.762(Pass)
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.006(Pass)	0.176(Pass)

Peak Review: Standard 5



Peak Review: Standard 5



Sample Summary

Sample Name	Standard 6
Acquisition Date/Time	9/19/2022 6:28:48 PM
Acquisition Method	THC.dam
Batch Name	20220919 TSF_LOD.dab
Results Table	20220919TSF LOD
Sample Type	Standard
File Name	20220919 TSF LOD.wiff
Position	35
Sample Comment	

Quantitative Summary

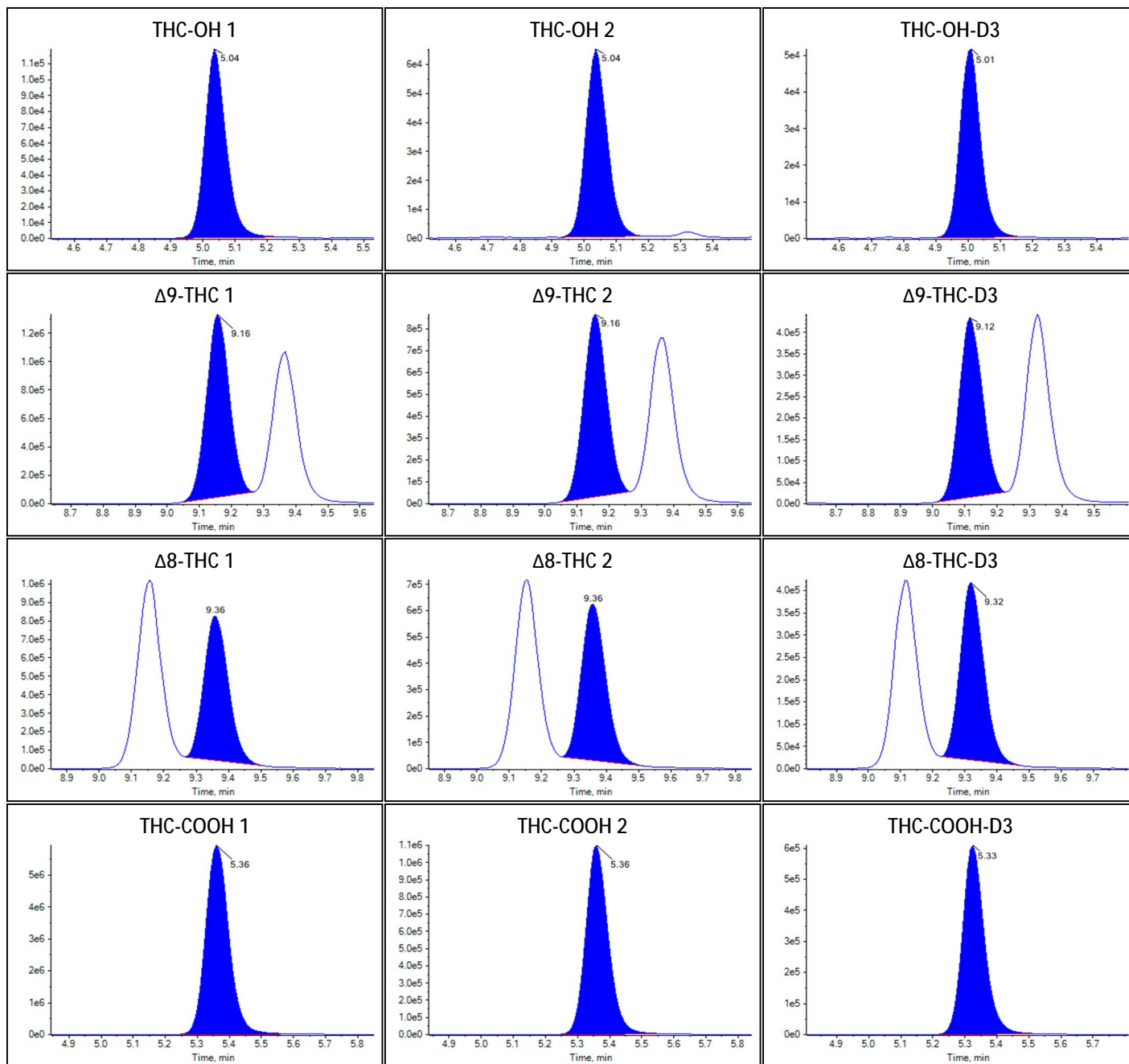
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.3486	19.294		
Δ 9-THC	3.0366	99.388		
Δ 8-THC	2.0088	96.286		
THC-COOH	10.3490	98.077		

Identification Summary: Standard 6

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.006(Pass)	
THC-OH 2	331.1 / 105.1	1.006(Pass)	0.552(Pass)
Δ 9-THC 1	315.1 / 193.1	1.004(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.004(Pass)	0.657(Pass)
Δ 8-THC 1	315.1 / 193.1	1.004(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.004(Pass)	0.766(Pass)
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.006(Pass)	0.178(Pass)

Peak Review: Standard 6

Peak Review: Standard 6



Sample Summary

Quantitative Analytes Report

Sample Name	Low
Acquisition Date/Time	9/19/2022 6:42:53 PM
Acquisition Method	THC.dam
Batch Name	20220919 TSF_LOD.dab
Results Table	20220919TSF LOD
Sample Type	Quality Control
File Name	20220919 TSF LOD.wiff
Position	36
Sample Comment	

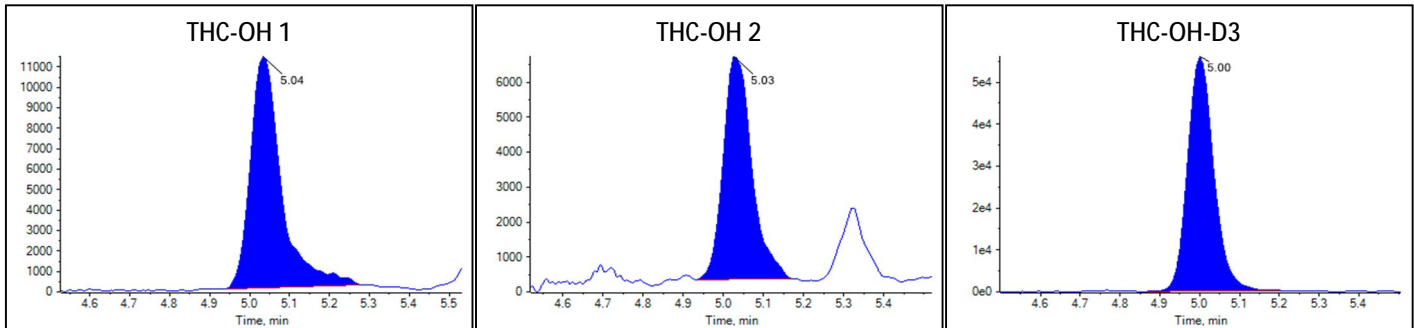
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.2398	1.951		
Δ9-THC	0.0955	2.880		
Δ8-THC	0.0745	2.938		
THC-COOH	0.8018	7.340		

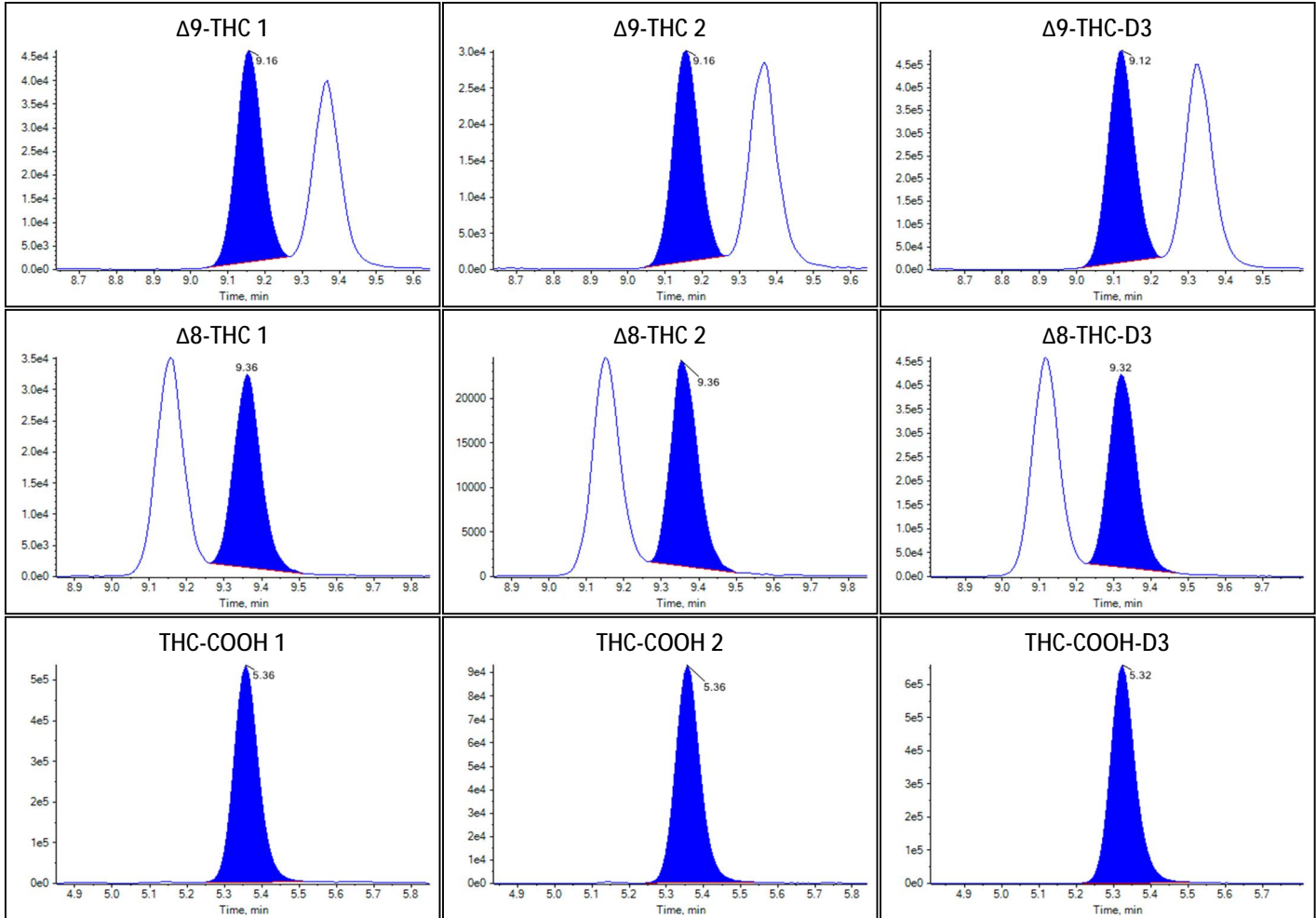
Identification Summary: Low

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.007(Pass)	
THC-OH 2	331.1 / 105.1	1.006(Pass)	0.514(Pass)
Δ9-THC 1	315.1 / 193.1	1.004(Pass)	
Δ9-THC 2	315.1 / 123.0	1.004(Pass)	0.664(Pass)
Δ8-THC 1	315.1 / 193.1	1.004(Pass)	
Δ8-THC 2	315.1 / 123.1	1.004(Pass)	0.749(Pass)
THC-COOH 1	343.0 / 299.1	1.006(Pass)	
THC-COOH 2	343.0 / 191.0	1.006(Pass)	0.174(Pass)

Peak Review: Low



Peak Review: Low



Sample Summary

Sample Name	Medium
Acquisition Date/Time	9/19/2022 6:56:58 PM
Acquisition Method	THC.dam
Batch Name	20220919 TSF_LOD.dab
Results Table	20220919TSF LOD
Sample Type	Quality Control
File Name	20220919 TSF LOD.wiff
Position	37
Sample Comment	

Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.1988	9.838		
Δ9-THC	1.3144	39.287		
Δ8-THC	0.9867	39.844		

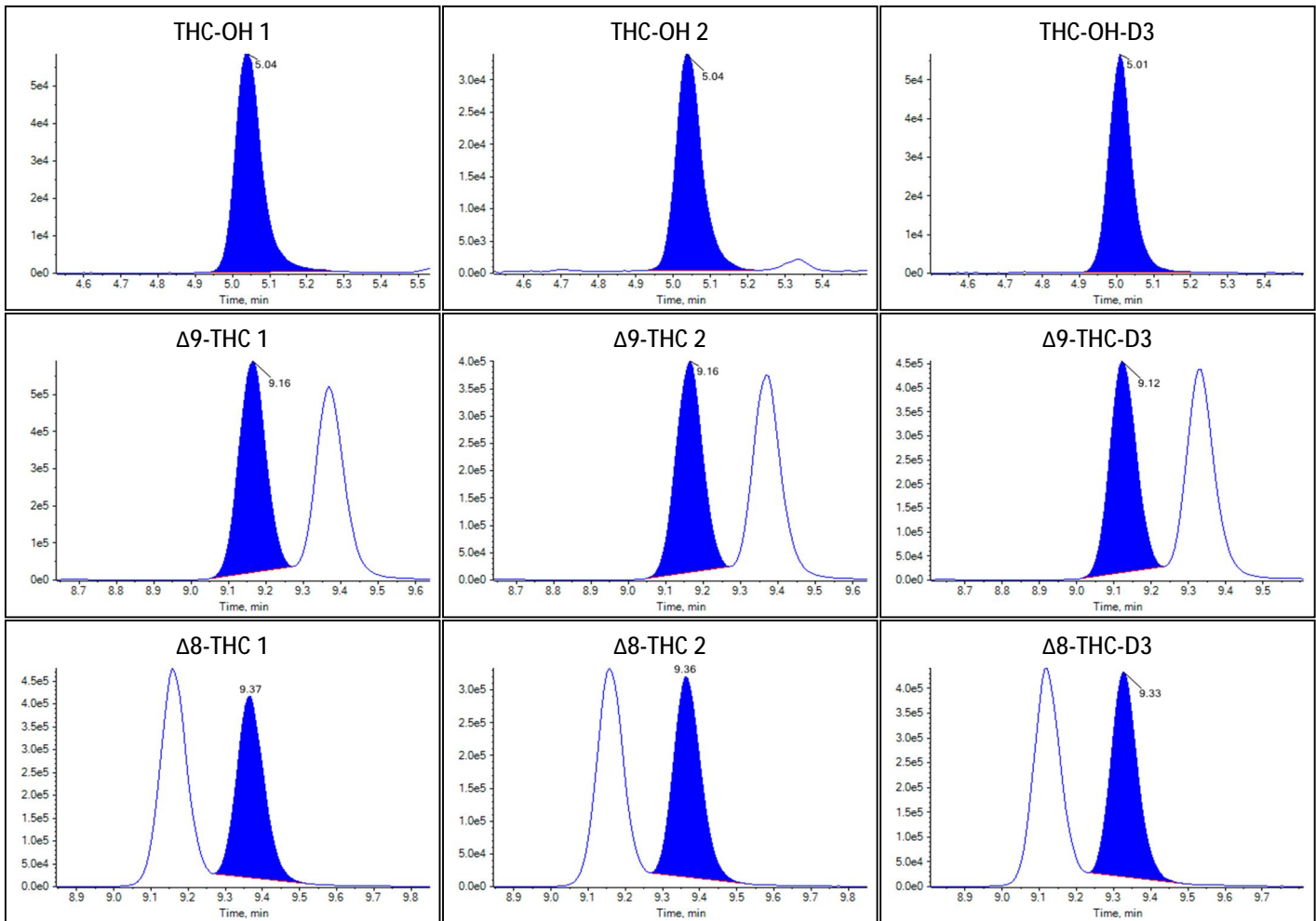
Quantitative Analytes Report

THC-COOH	4.4041	41.577	
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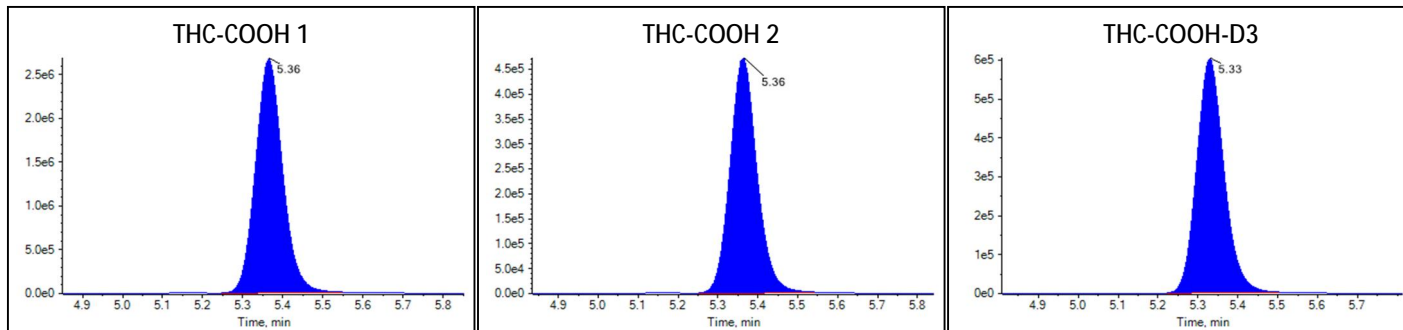
Identification Summary: Medium

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.006(Pass)	
THC-OH 2	331.1 / 105.1	1.006(Pass)	0.559(Pass)
Δ 9-THC 1	315.1 / 193.1	1.004(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.004(Pass)	0.670(Pass)
Δ 8-THC 1	315.1 / 193.1	1.004(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.004(Pass)	0.772(Pass)
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.006(Pass)	0.176(Pass)

Peak Review: Medium



Peak Review: Medium



Sample Summary

Sample Name	High
Acquisition Date/Time	9/19/2022 7:11:04 PM
Acquisition Method	THC.dam
Batch Name	20220919 TSF_LOD.dab
Results Table	20220919TSF LOD
Sample Type	Quality Control
File Name	20220919 TSF LOD.wiff
Position	38
Sample Comment	

Quantitative Summary

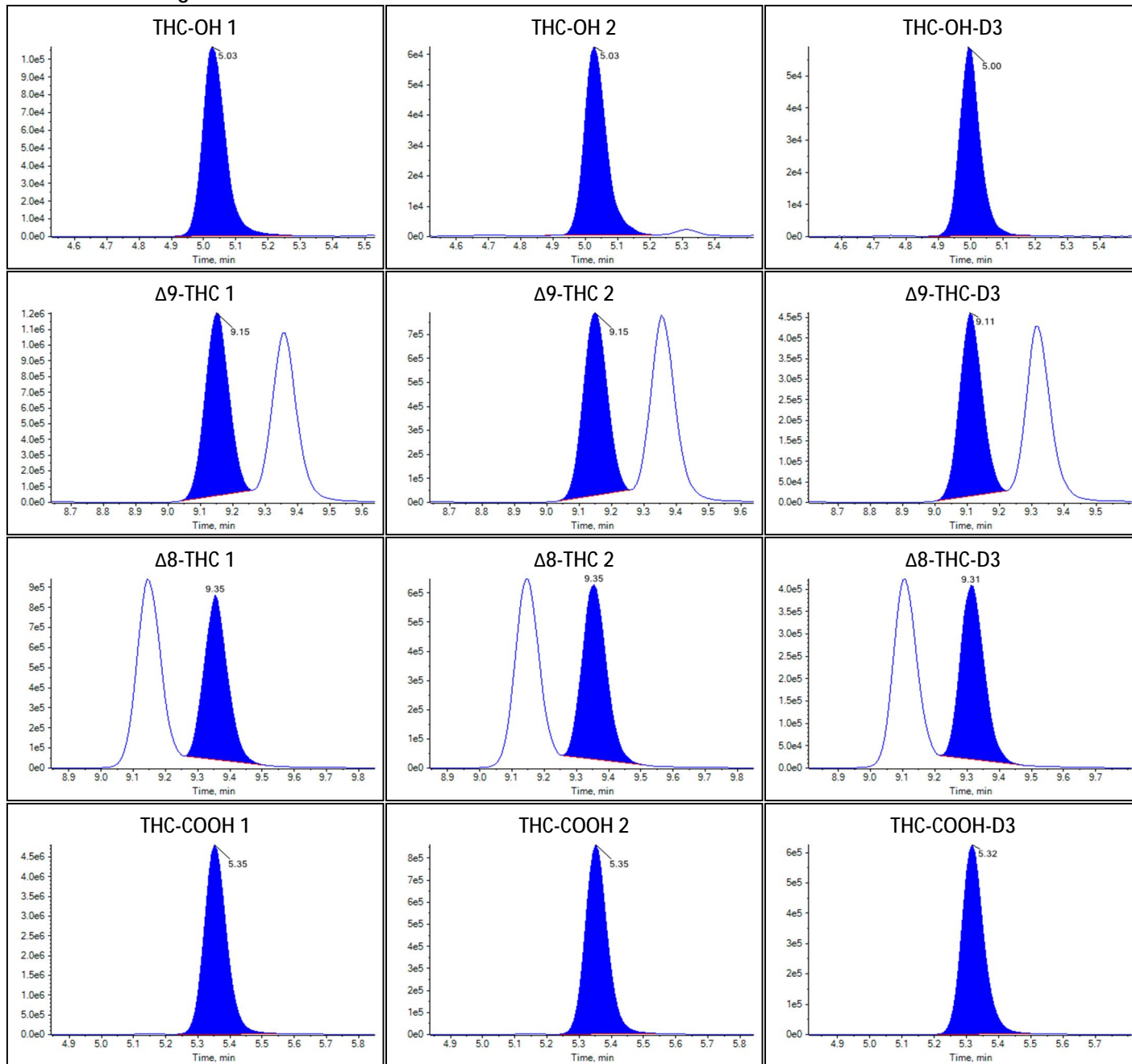
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.0403	16.758		
Δ 9-THC	2.7334	87.828		
Δ 8-THC	2.0389	98.444		
THC-COOH	7.8233	74.073		

Identification Summary: High

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.007(Pass)	
THC-OH 2	331.1 / 105.1	1.007(Pass)	0.564(Pass)
Δ 9-THC 1	315.1 / 193.1	1.004(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.004(Pass)	0.664(Pass)
Δ 8-THC 1	315.1 / 193.1	1.004(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.004(Pass)	0.765(Pass)
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.006(Pass)	0.177(Pass)

Peak Review: High

Peak Review: High



Sample Summary

Quantitative Analytes Report

Sample Name	Negative
Acquisition Date/Time	9/19/2022 7:25:09 PM
Acquisition Method	THC.dam
Batch Name	20220919 TSF_LOD.dab
Results Table	20220919TSF LOD
Sample Type	Quality Control
File Name	20220919 TSF LOD.wiff
Position	39
Sample Comment	

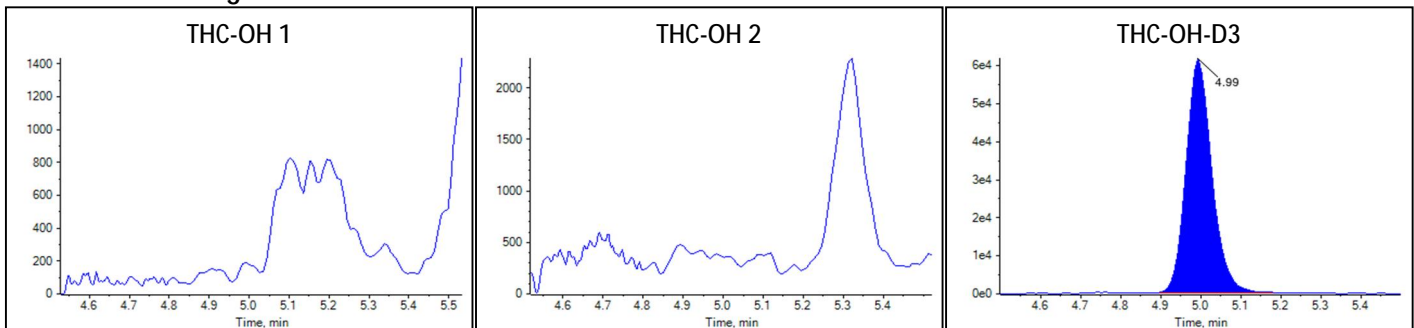
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ 9-THC	N/A	N/A		
Δ 8-THC	N/A	N/A		
THC-COOH	N/A	N/A		

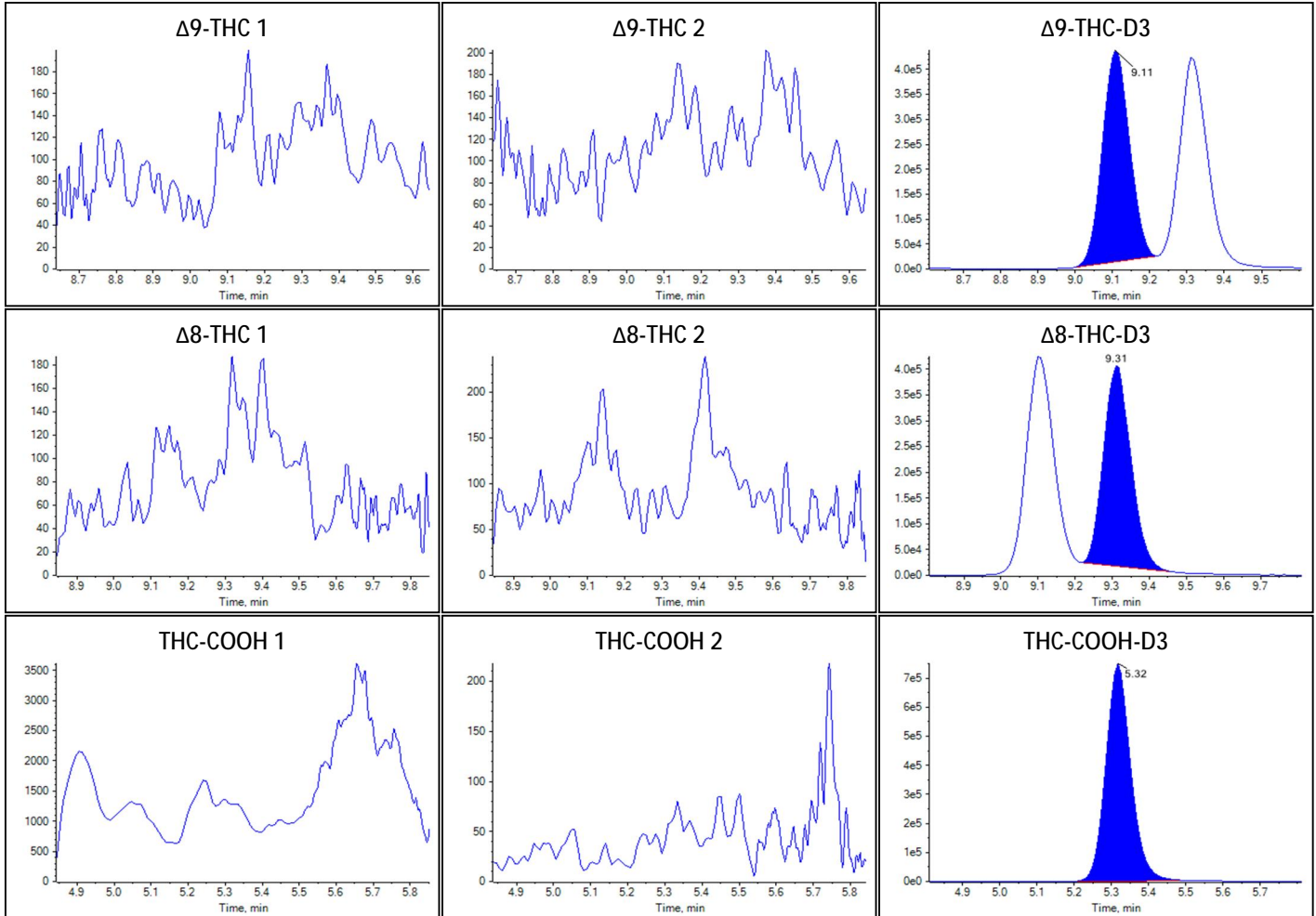
Identification Summary: Negative

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ 9-THC 1	315.1 / 193.1	N/A	
Δ 9-THC 2	315.1 / 123.0	N/A	N/A
Δ 8-THC 1	315.1 / 193.1	N/A	
Δ 8-THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	N/A	
THC-COOH 2	343.0 / 191.0	N/A	N/A

Peak Review: Negative



Peak Review: Negative



Sample Summary

Sample Name	0.5 FW_1
Acquisition Date/Time	9/19/2022 7:39:15 PM
Acquisition Method	THC.dam
Batch Name	20220919 TSF_LOD.dab
Results Table	20220919TSF LOD
Sample Type	Unknown
File Name	20220919 TSF LOD.wiff
Position	40
Sample Comment	

Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.0704	0.558		
$\Delta 9$ -THC	0.0166	0.653		
$\Delta 8$ -THC	0.0126	0.687		

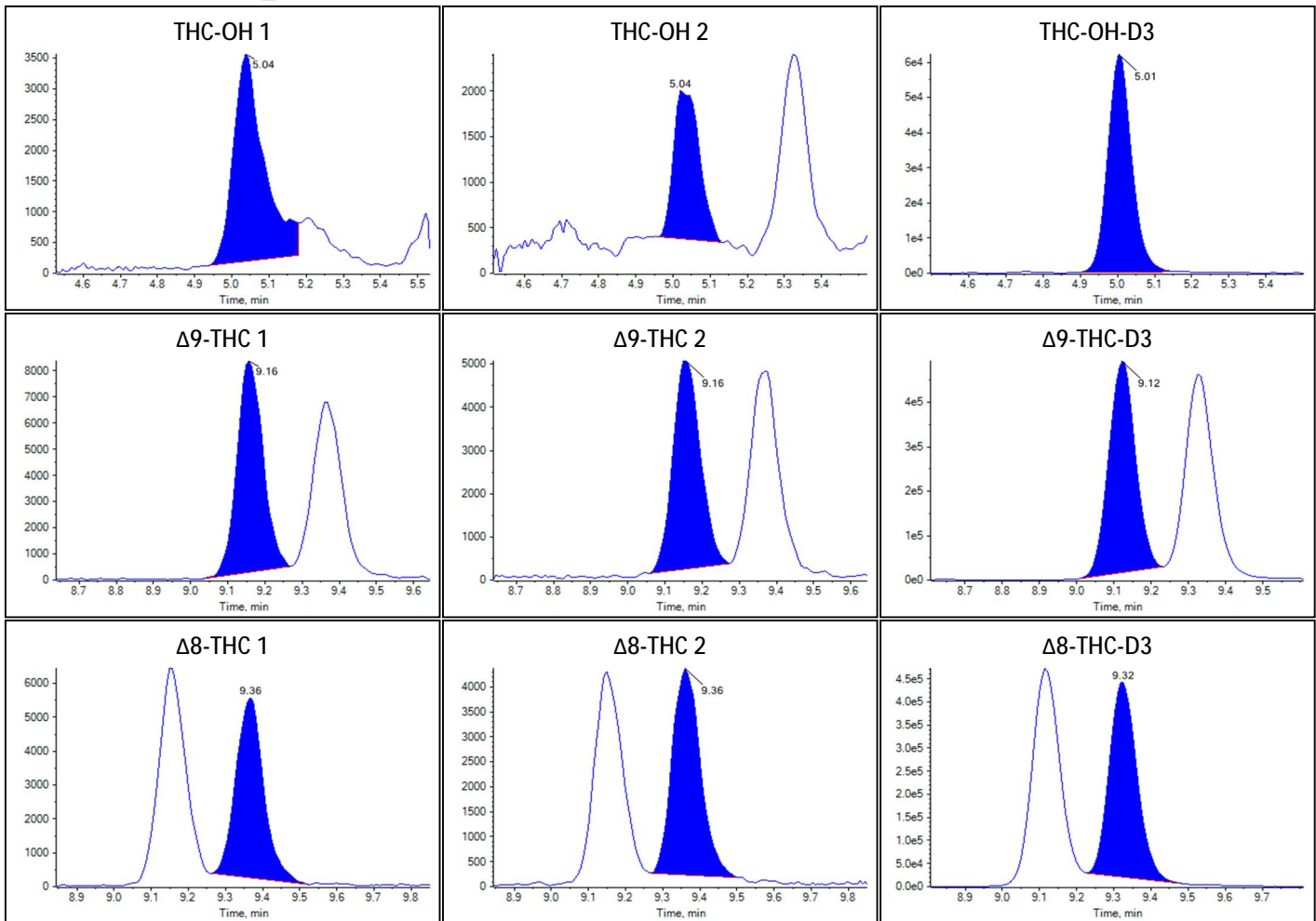
Quantitative Analytes Report

THC-COOH	0.2450	2.049		
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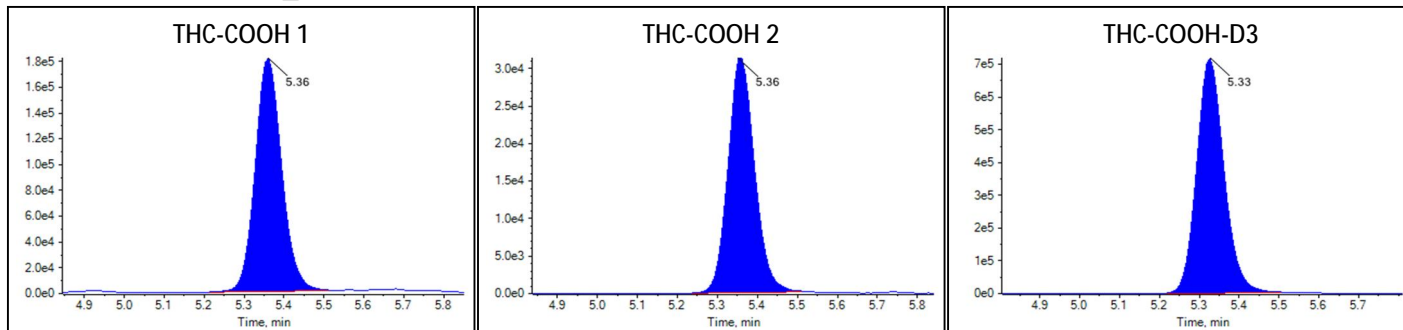
Identification Summary: 0.5 FW_1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.007(Pass)	
THC-OH 2	331.1 / 105.1	1.006(Pass)	0.408(Fail)
Δ 9-THC 1	315.1 / 193.1	1.004(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.004(Pass)	0.632(Pass)
Δ 8-THC 1	315.1 / 193.1	1.004(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.004(Pass)	0.795(Pass)
THC-COOH 1	343.0 / 299.1	1.006(Pass)	
THC-COOH 2	343.0 / 191.0	1.006(Pass)	0.173(Pass)

Peak Review: 0.5 FW_1



Peak Review: 0.5 FW_1



Sample Summary

Sample Name	0.5 FW_2
Acquisition Date/Time	9/19/2022 7:53:17 PM
Acquisition Method	THC.dam
Batch Name	20220919 TSF_LOD.dab
Results Table	20220919TSF LOD
Sample Type	Unknown
File Name	20220919 TSF LOD.wiff
Position	41
Sample Comment	

Quantitative Summary

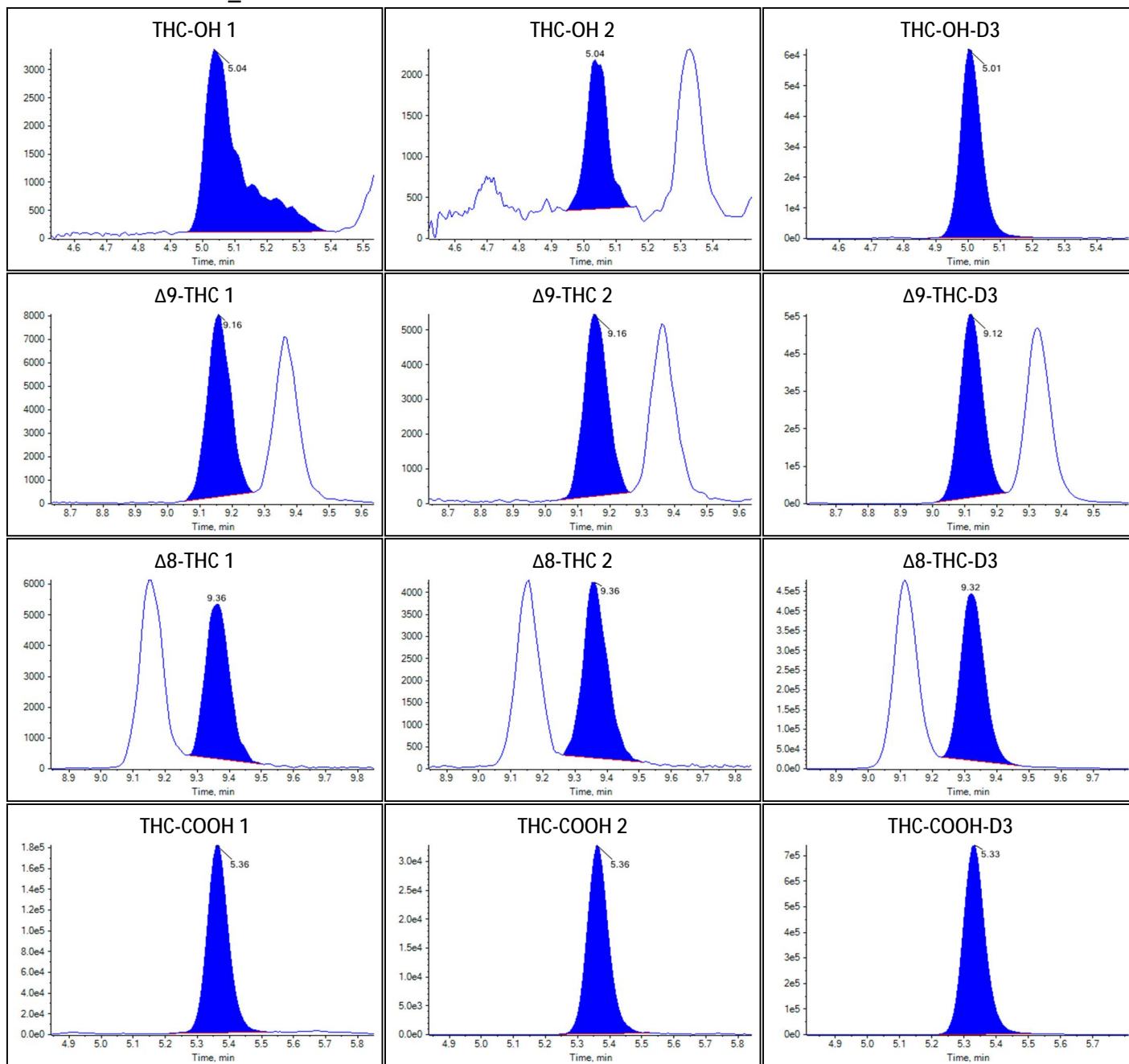
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.0887	0.708		
Δ9-THC	0.0161	0.640		
Δ8-THC	0.0120	0.666		
THC-COOH	0.2395	1.997		

Identification Summary: 0.5 FW_2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.007(Pass)	
THC-OH 2	331.1 / 105.1	1.007(Pass)	0.343(Fail)
Δ9-THC 1	315.1 / 193.1	1.004(Pass)	
Δ9-THC 2	315.1 / 123.0	1.004(Pass)	0.694(Pass)
Δ8-THC 1	315.1 / 193.1	1.004(Pass)	
Δ8-THC 2	315.1 / 123.1	1.004(Pass)	0.795(Pass)
THC-COOH 1	343.0 / 299.1	1.006(Pass)	
THC-COOH 2	343.0 / 191.0	1.006(Pass)	0.179(Pass)

Peak Review: 0.5 FW_2

Peak Review: 0.5 FW_2



Sample Summary

Quantitative Analytes Report

Sample Name	0.5 FX_1
Acquisition Date/Time	9/19/2022 8:07:22 PM
Acquisition Method	THC.dam
Batch Name	20220919 TSF_LOD.dab
Results Table	20220919TSF LOD
Sample Type	Unknown
File Name	20220919 TSF LOD.wiff
Position	42
Sample Comment	

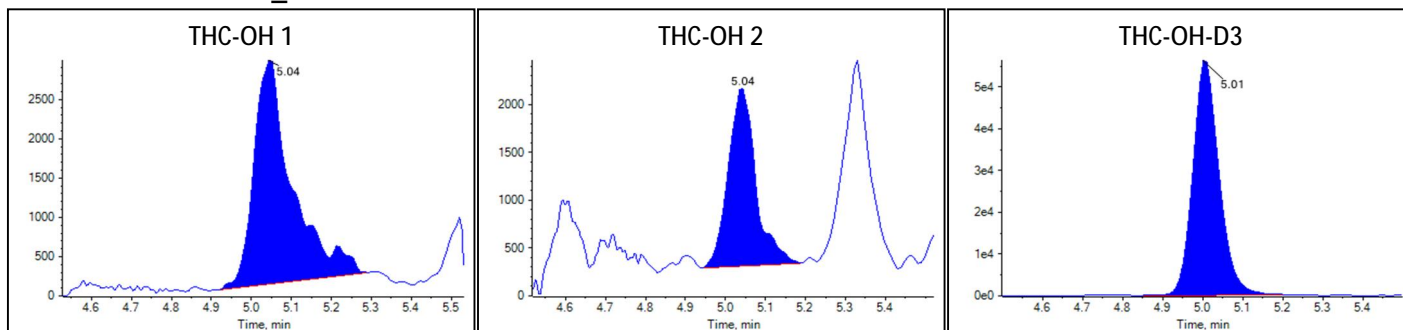
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.0743	0.590		
Δ9-THC	0.0138	0.574		
Δ8-THC	0.0133	0.713		
THC-COOH	0.2254	1.863		

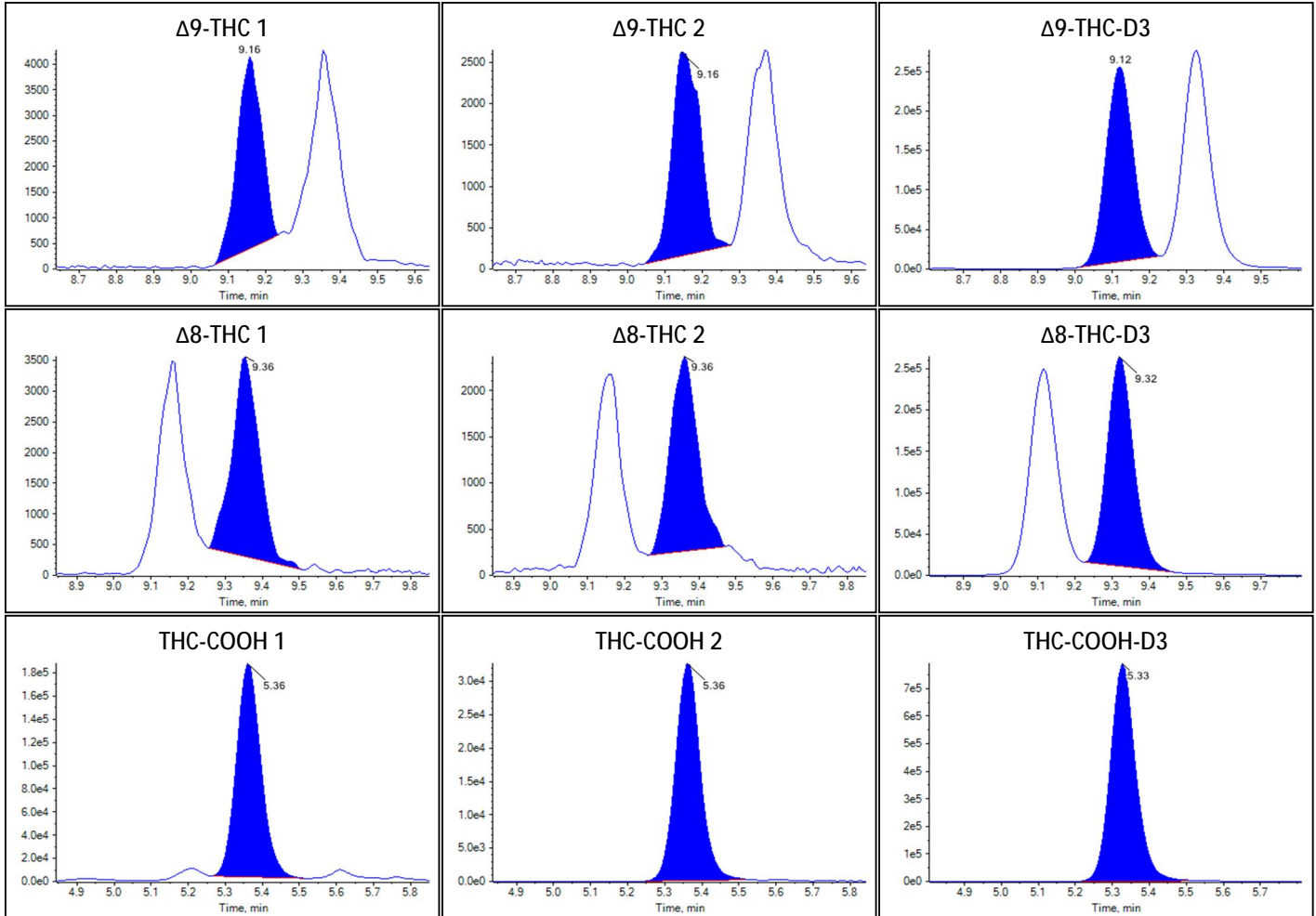
Identification Summary: 0.5 FX_1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.007(Pass)	
THC-OH 2	331.1 / 105.1	1.007(Pass)	0.469(Pass)
Δ9-THC 1	315.1 / 193.1	1.004(Pass)	
Δ9-THC 2	315.1 / 123.0	1.004(Pass)	0.761(Pass)
Δ8-THC 1	315.1 / 193.1	1.004(Pass)	
Δ8-THC 2	315.1 / 123.1	1.004(Pass)	0.655(Pass)
THC-COOH 1	343.0 / 299.1	1.006(Pass)	
THC-COOH 2	343.0 / 191.0	1.006(Pass)	0.179(Pass)

Peak Review: 0.5 FX_1



Peak Review: 0.5 FX_1



Sample Summary

Sample Name	0.5 FX_2
Acquisition Date/Time	9/19/2022 8:21:31 PM
Acquisition Method	THC.dam
Batch Name	20220919 TSF_LOD.dab
Results Table	20220919TSF LOD
Sample Type	Unknown
File Name	20220919 TSF LOD.wiff
Position	43
Sample Comment	

Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.0728	0.577		
Δ9-THC	0.0140	0.580		
Δ8-THC	0.0120	0.666		

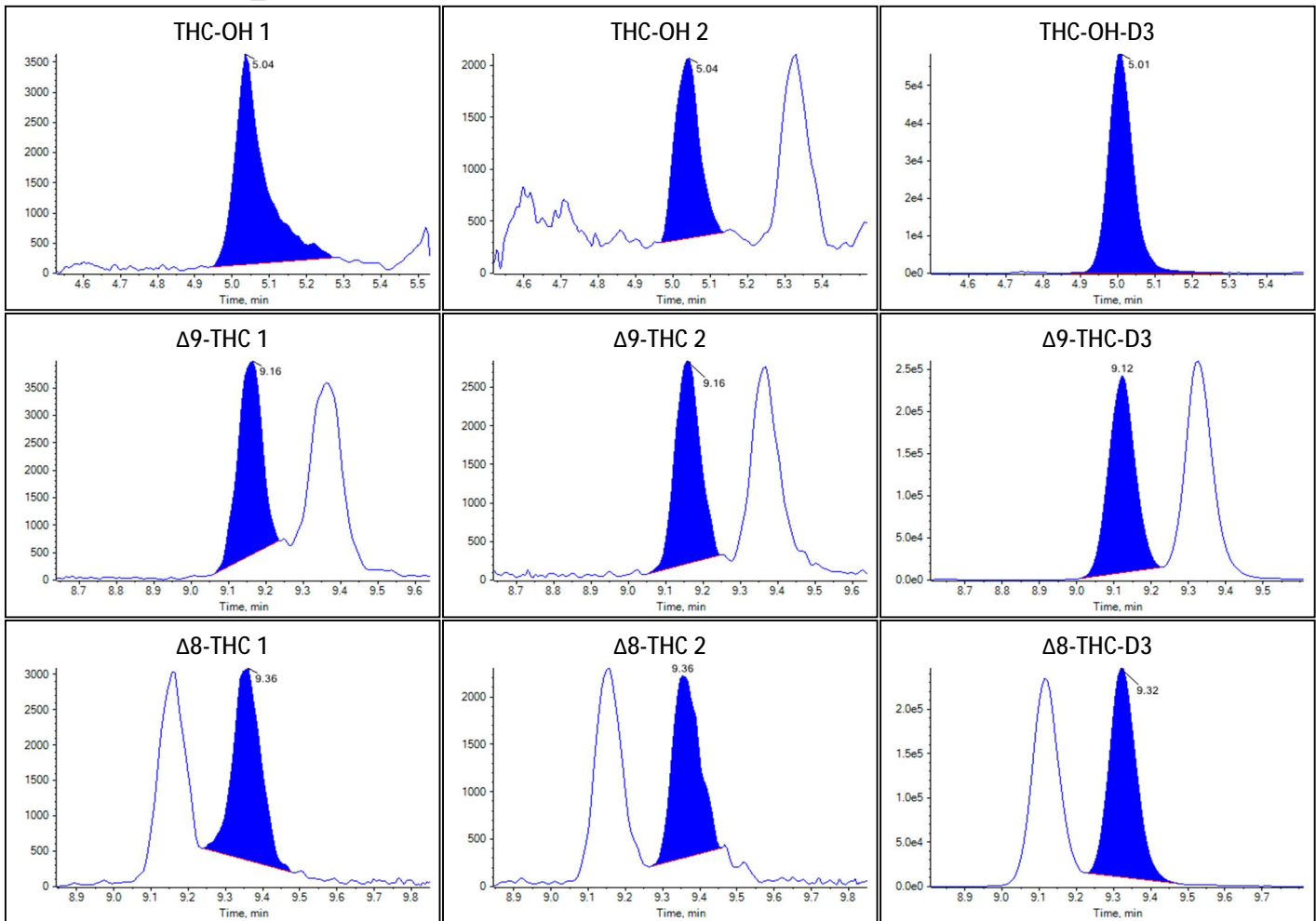
Quantitative Analytes Report

THC-COOH	0.2237	1.847	
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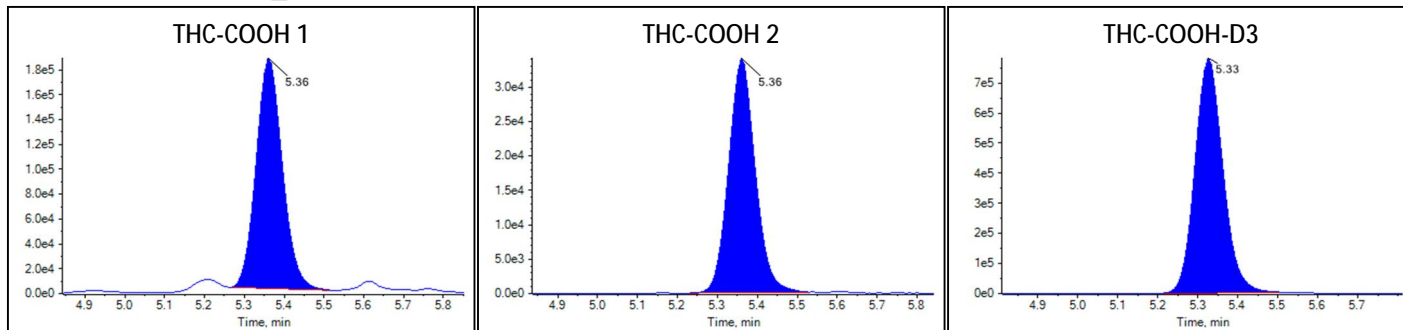
Identification Summary: 0.5 FX_2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.006(Pass)	
THC-OH 2	331.1 / 105.1	1.006(Pass)	0.408(Fail)
Δ 9-THC 1	315.1 / 193.1	1.004(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.004(Pass)	0.768(Pass)
Δ 8-THC 1	315.1 / 193.1	1.004(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.004(Pass)	0.692(Pass)
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.006(Pass)	0.186(Pass)

Peak Review: 0.5 FX_2



Peak Review: 0.5 FX_2



Sample Summary

Sample Name	0.5 GA_1
Acquisition Date/Time	9/19/2022 8:35:36 PM
Acquisition Method	THC.dam
Batch Name	20220919 TSF_LOD.dab
Results Table	20220919TSF LOD
Sample Type	Unknown
File Name	20220919 TSF LOD.wiff
Position	44
Sample Comment	

Quantitative Summary

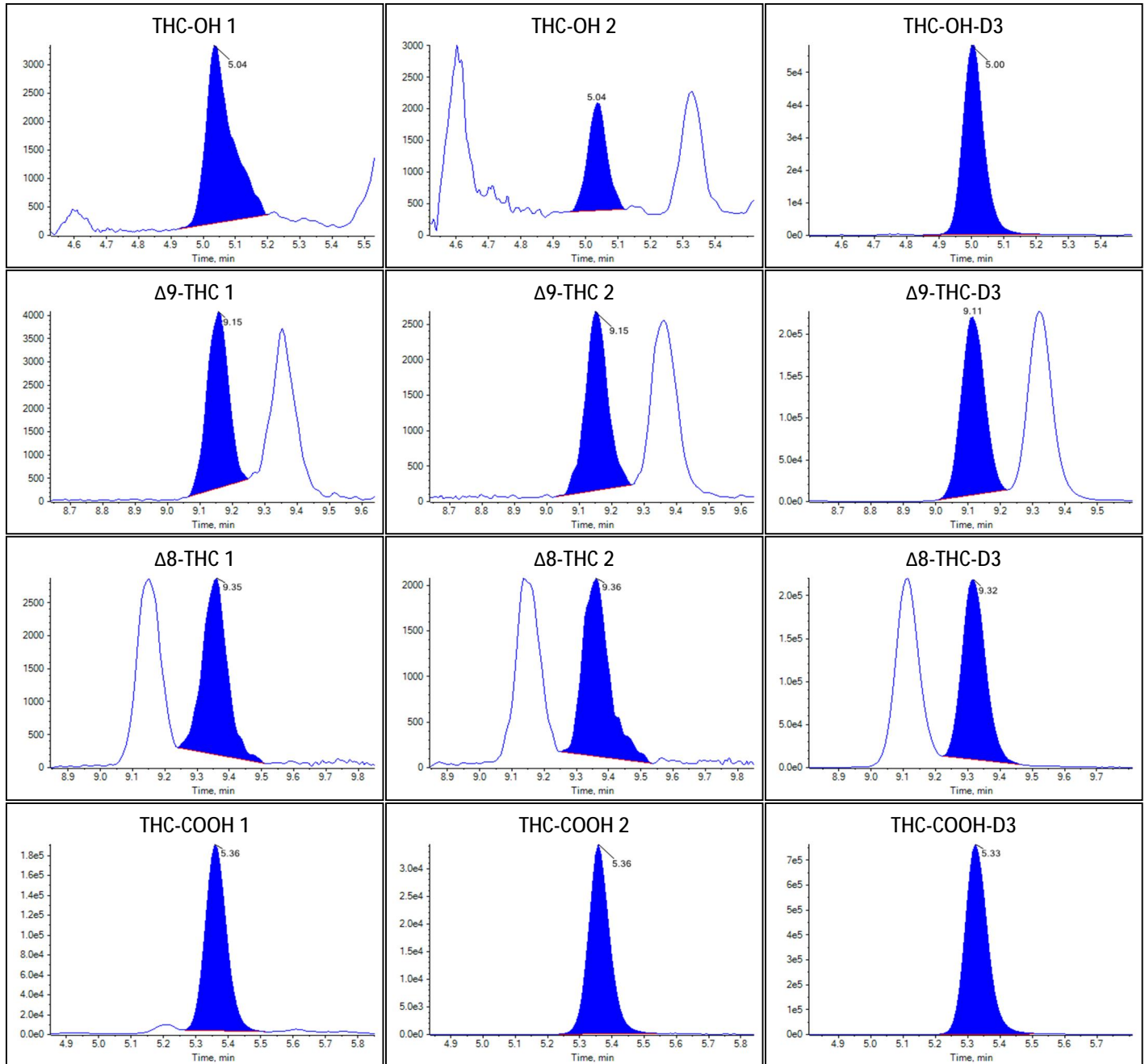
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.0662	0.523		
Δ9-THC	0.0164	0.647		
Δ8-THC	0.0134	0.714		
THC-COOH	0.2316	1.921		

Identification Summary: 0.5 GA_1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.007(Pass)	
THC-OH 2	331.1 / 105.1	1.006(Pass)	0.398(Fail)
Δ9-THC 1	315.1 / 193.1	1.004(Pass)	
Δ9-THC 2	315.1 / 123.0	1.004(Pass)	0.694(Pass)
Δ8-THC 1	315.1 / 193.1	1.004(Pass)	
Δ8-THC 2	315.1 / 123.1	1.004(Pass)	0.790(Pass)
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.006(Pass)	0.181(Pass)

Peak Review: 0.5 GA_1

Peak Review: 0.5 GA_1



Sample Summary

Quantitative Analytes Report

Sample Name	0.5 GA_2
Acquisition Date/Time	9/19/2022 8:49:42 PM
Acquisition Method	THC.dam
Batch Name	20220919 TSF_LOD.dab
Results Table	20220919TSF LOD
Sample Type	Unknown
File Name	20220919 TSF LOD.wiff
Position	45
Sample Comment	

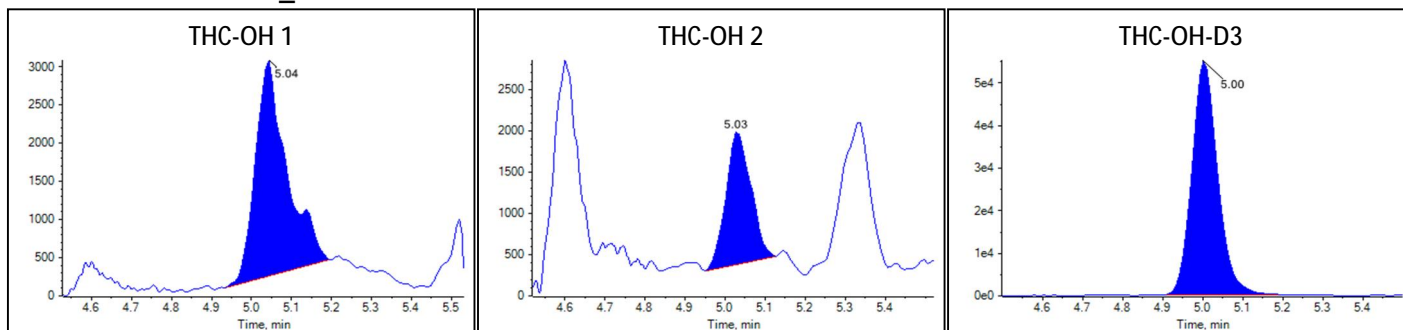
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.0625	0.493		
Δ9-THC	0.0139	0.577		
Δ8-THC	0.0115	0.648		
THC-COOH	0.2143	1.758		

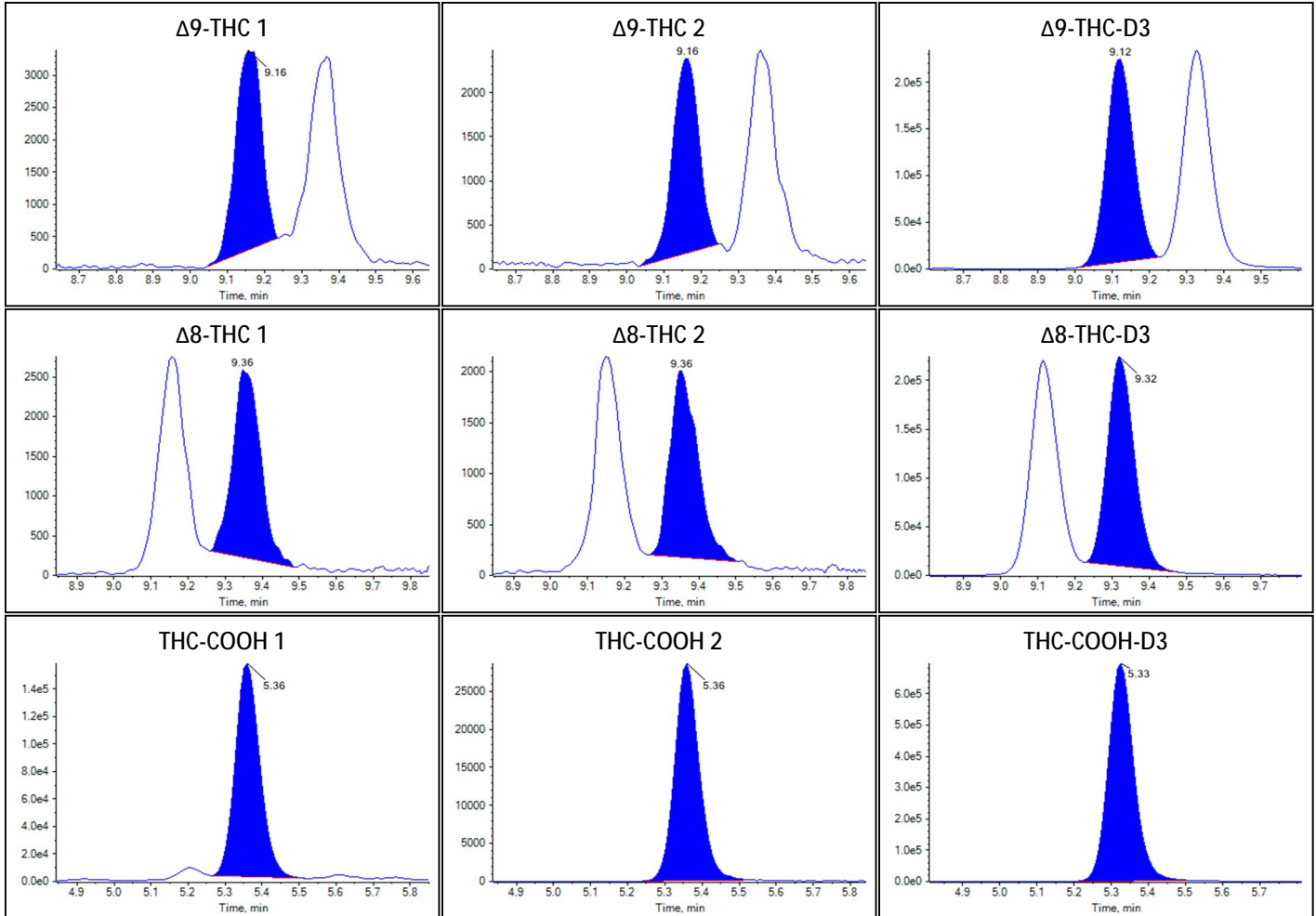
Identification Summary: 0.5 GA_2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.008(Pass)	
THC-OH 2	331.1 / 105.1	1.006(Pass)	0.450(Pass)
Δ9-THC 1	315.1 / 193.1	1.004(Pass)	
Δ9-THC 2	315.1 / 123.0	1.004(Pass)	0.711(Pass)
Δ8-THC 1	315.1 / 193.1	1.004(Pass)	
Δ8-THC 2	315.1 / 123.1	1.004(Pass)	0.771(Pass)
THC-COOH 1	343.0 / 299.1	1.006(Pass)	
THC-COOH 2	343.0 / 191.0	1.006(Pass)	0.184(Pass)

Peak Review: 0.5 GA_2



Peak Review: 0.5 GA_2



Sample Summary

Sample Name	0.4 FW_1
Acquisition Date/Time	9/19/2022 9:03:47 PM
Acquisition Method	THC.dam
Batch Name	20220919 TSF_LOD.dab
Results Table	20220919TSF LOD
Sample Type	Unknown
File Name	20220919 TSF LOD.wiff
Position	46
Sample Comment	

Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.0621	0.490		
Δ9-THC	0.0125	0.539		
Δ8-THC	0.0095	0.574		

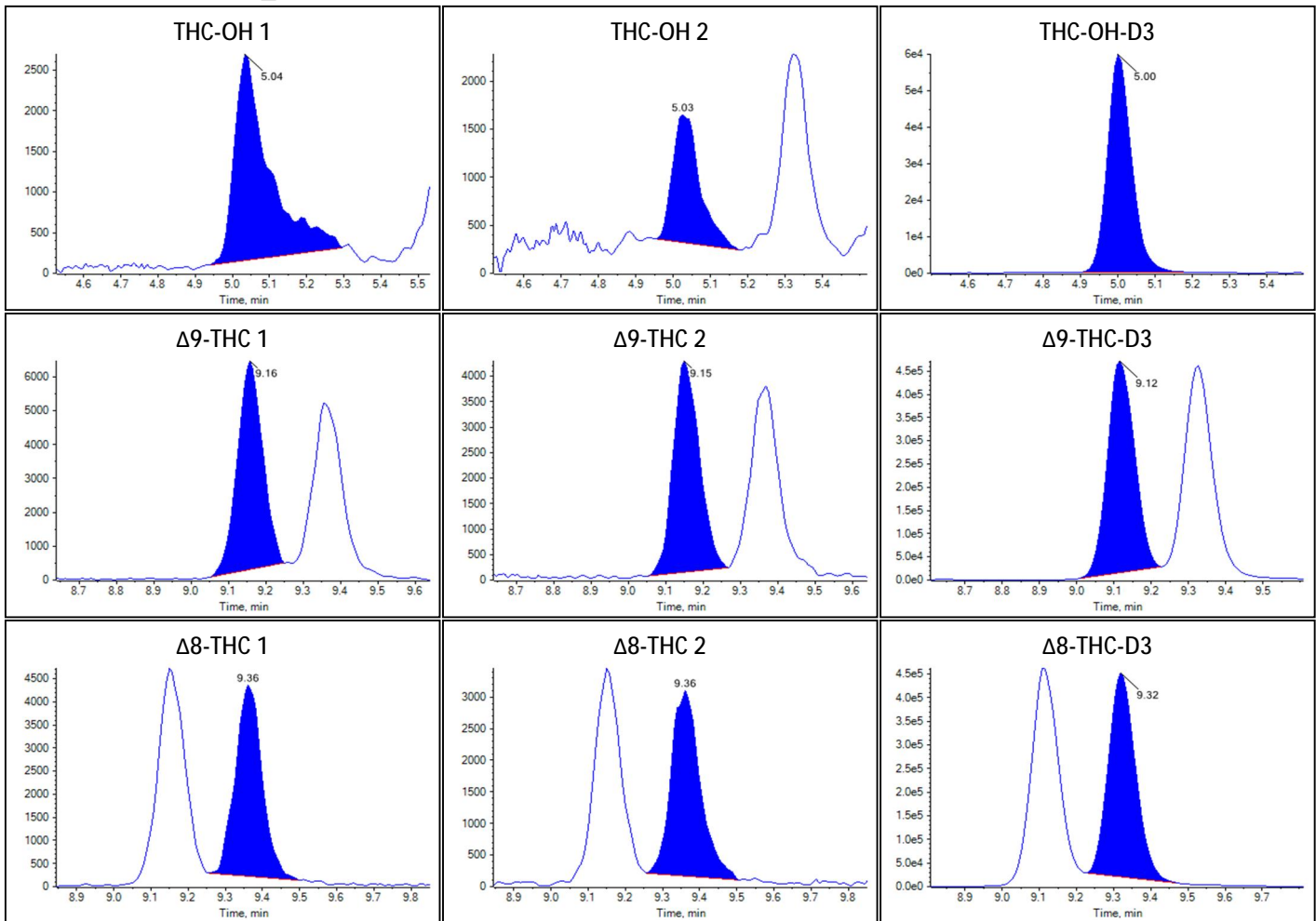
Quantitative Analytes Report

THC-COOH	0.1876	1.504	
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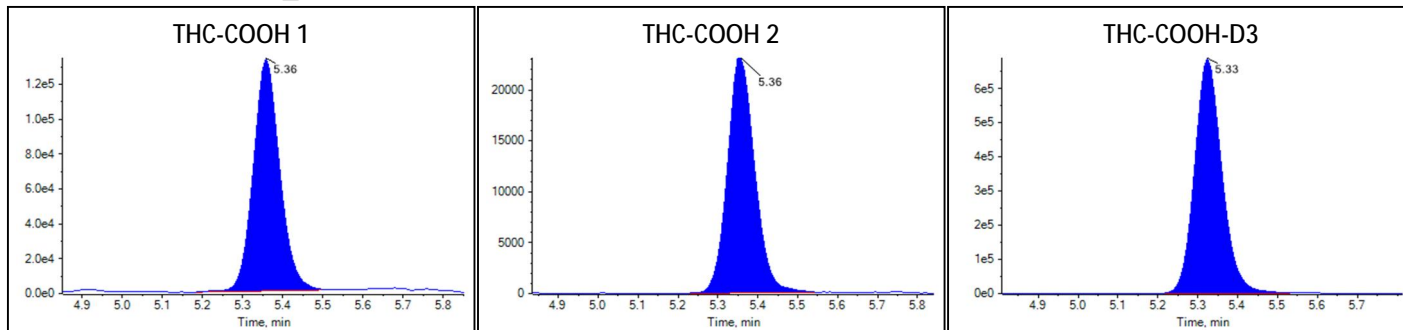
Identification Summary: 0.4 FW_1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.007(Pass)	
THC-OH 2	331.1 / 105.1	1.006(Pass)	0.411(Fail)
Δ 9-THC 1	315.1 / 193.1	1.004(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.004(Pass)	0.698(Pass)
Δ 8-THC 1	315.1 / 193.1	1.005(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.004(Pass)	0.771(Pass)
THC-COOH 1	343.0 / 299.1	1.006(Pass)	
THC-COOH 2	343.0 / 191.0	1.006(Pass)	0.180(Pass)

Peak Review: 0.4 FW_1



Peak Review: 0.4 FW_1



Sample Summary

Sample Name	0.4 FW_2
Acquisition Date/Time	9/19/2022 9:17:52 PM
Acquisition Method	THC.dam
Batch Name	20220919 TSF_LOD.dab
Results Table	20220919TSF LOD
Sample Type	Unknown
File Name	20220919 TSF LOD.wiff
Position	47
Sample Comment	

Quantitative Summary

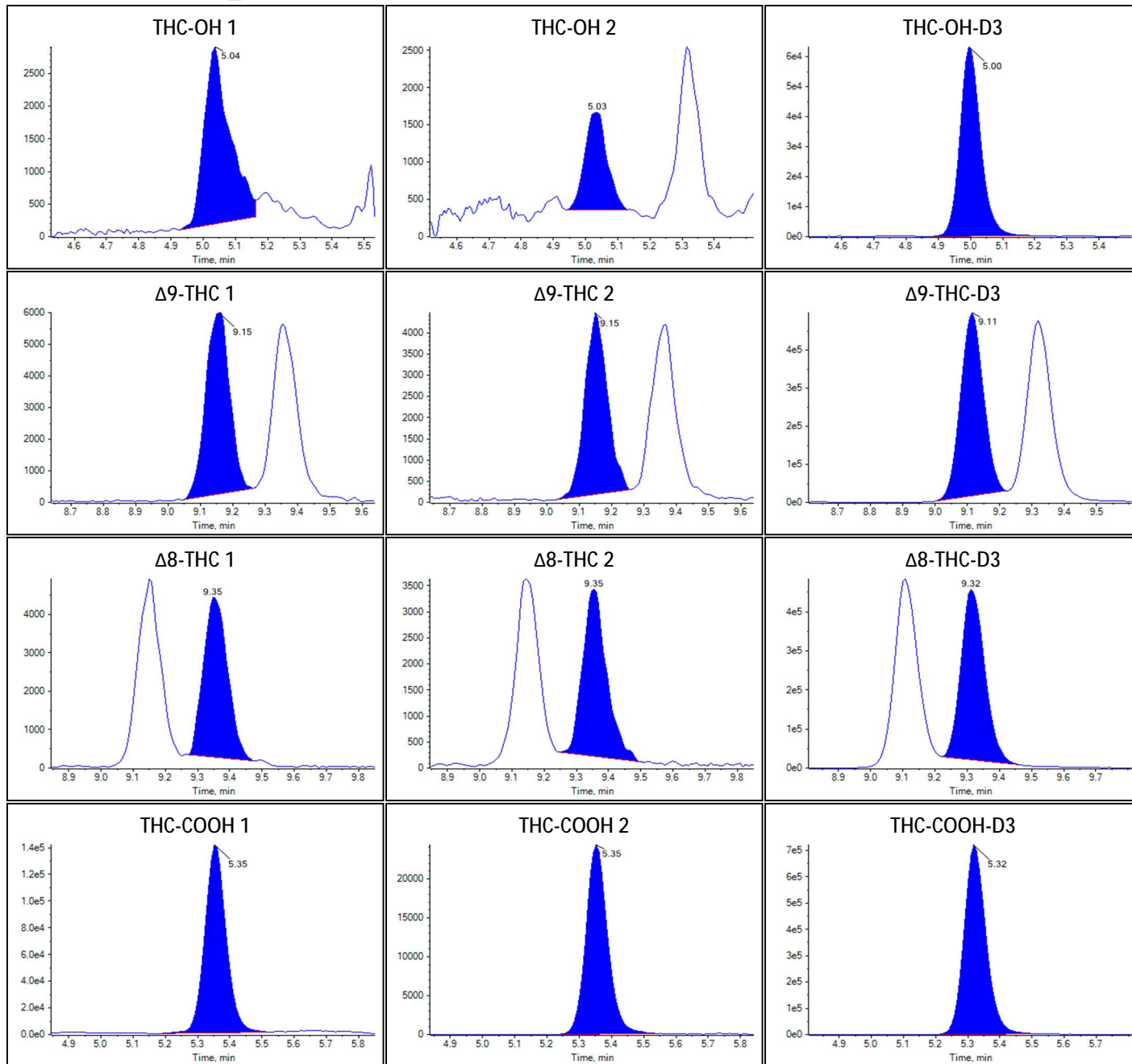
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.0538	0.421		
Δ9-THC	0.0126	0.542		
Δ8-THC	0.0097	0.582		
THC-COOH	0.1905	1.531		

Identification Summary: 0.4 FW_2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.008(Pass)	
THC-OH 2	331.1 / 105.1	1.007(Pass)	0.418(Fail)
Δ9-THC 1	315.1 / 193.1	1.004(Pass)	
Δ9-THC 2	315.1 / 123.0	1.004(Pass)	0.696(Pass)
Δ8-THC 1	315.1 / 193.1	1.004(Pass)	
Δ8-THC 2	315.1 / 123.1	1.004(Pass)	0.764(Pass)
THC-COOH 1	343.0 / 299.1	1.006(Pass)	
THC-COOH 2	343.0 / 191.0	1.006(Pass)	0.175(Pass)

Peak Review: 0.4 FW_2

Peak Review: 0.4 FW_2



Sample Summary

Quantitative Analytes Report

Sample Name	0.4 FX_1
Acquisition Date/Time	9/19/2022 9:31:58 PM
Acquisition Method	THC.dam
Batch Name	20220919 TSF_LOD.dab
Results Table	20220919TSF LOD
Sample Type	Unknown
File Name	20220919 TSF LOD.wiff
Position	48
Sample Comment	

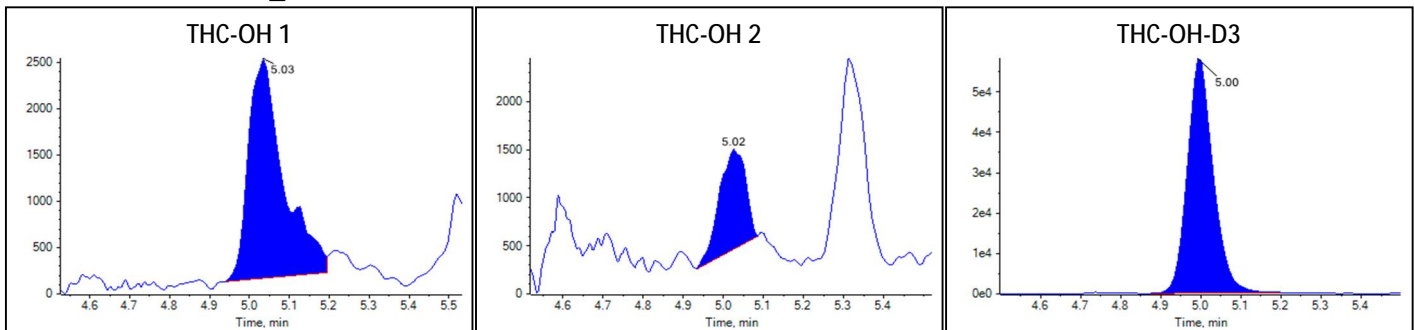
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.0561	0.440		
Δ9-THC	0.0120	0.524		
Δ8-THC	0.0097	0.580		
THC-COOH	0.1748	1.382		

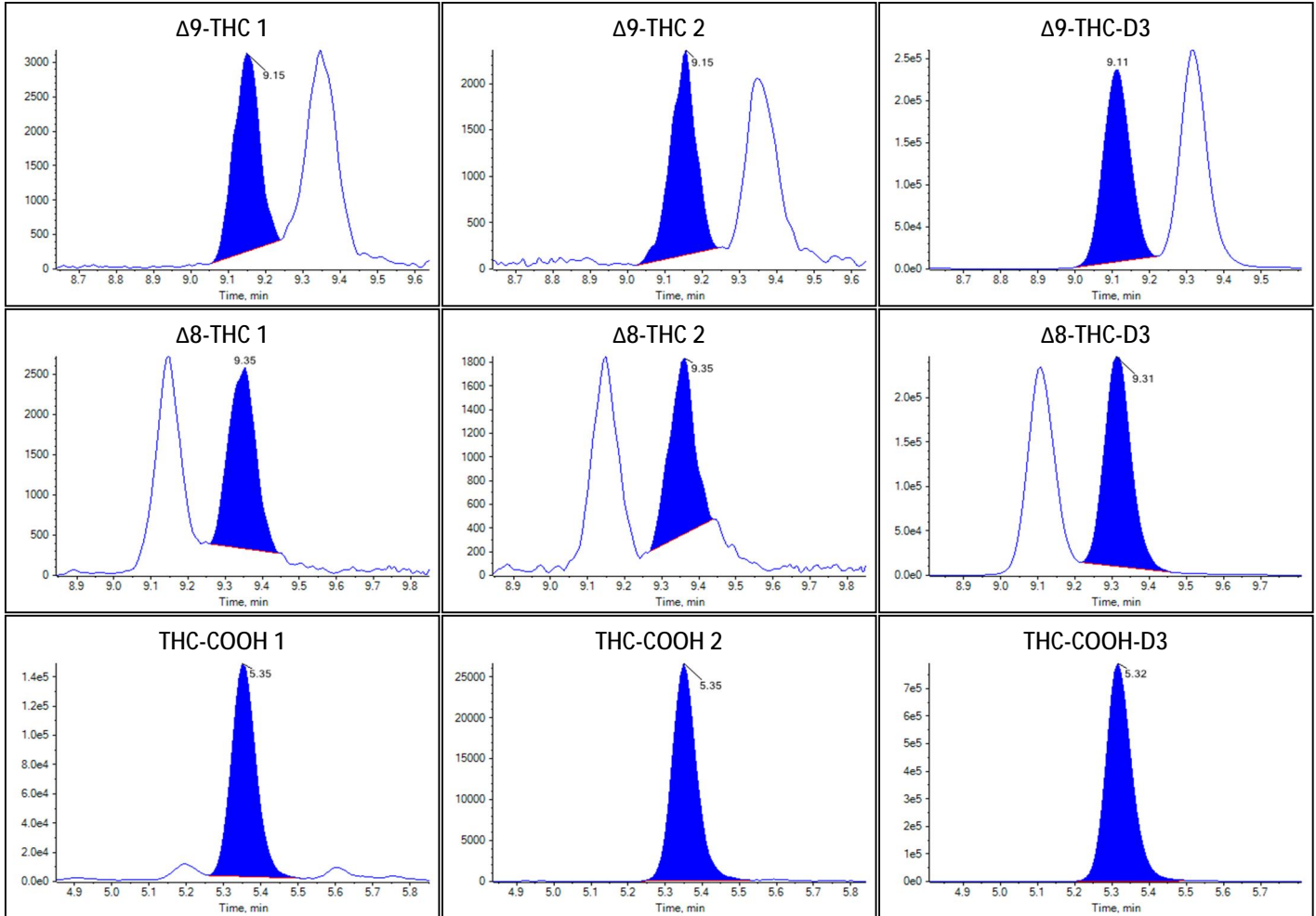
Identification Summary: 0.4 FX_1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.007(Pass)	
THC-OH 2	331.1 / 105.1	1.005(Pass)	0.327(Fail)
Δ9-THC 1	315.1 / 193.1	1.004(Pass)	
Δ9-THC 2	315.1 / 123.0	1.004(Pass)	0.749(Pass)
Δ8-THC 1	315.1 / 193.1	1.003(Pass)	
Δ8-THC 2	315.1 / 123.1	1.004(Pass)	0.602(Fail)
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.006(Pass)	0.182(Pass)

Peak Review: 0.4 FX_1



Peak Review: 0.4 FX_1



Sample Summary

Sample Name	0.4 FX_2
Acquisition Date/Time	9/19/2022 9:46:03 PM
Acquisition Method	THC.dam
Batch Name	20220919 TSF_LOD.dab
Results Table	20220919TSF LOD
Sample Type	Unknown
File Name	20220919 TSF LOD.wiff
Position	49
Sample Comment	

Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.0536	0.420		
Δ9-THC	0.0119	0.522		
Δ8-THC	0.0111	0.631		

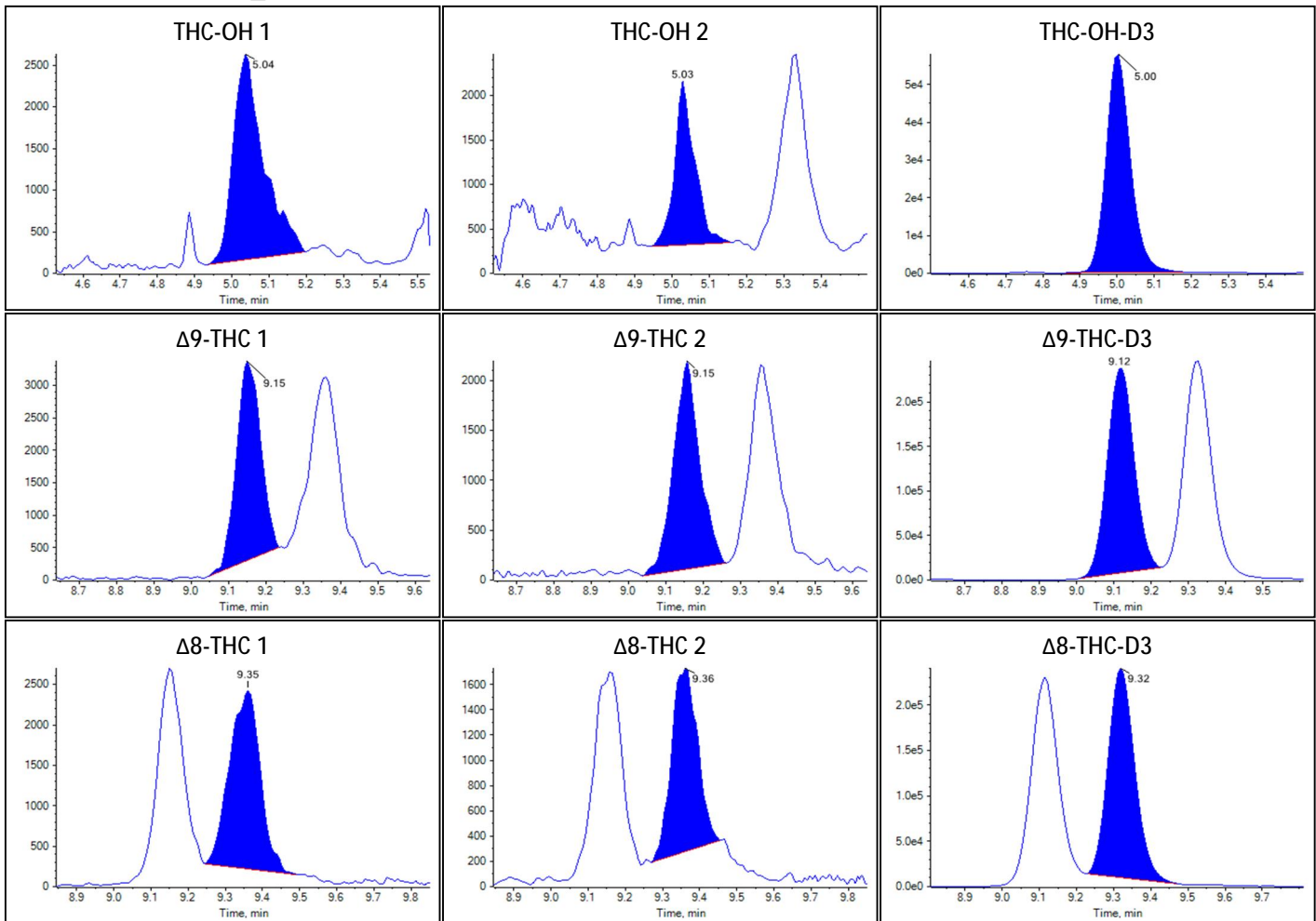
Quantitative Analytes Report

THC-COOH	0.1776	1.409	
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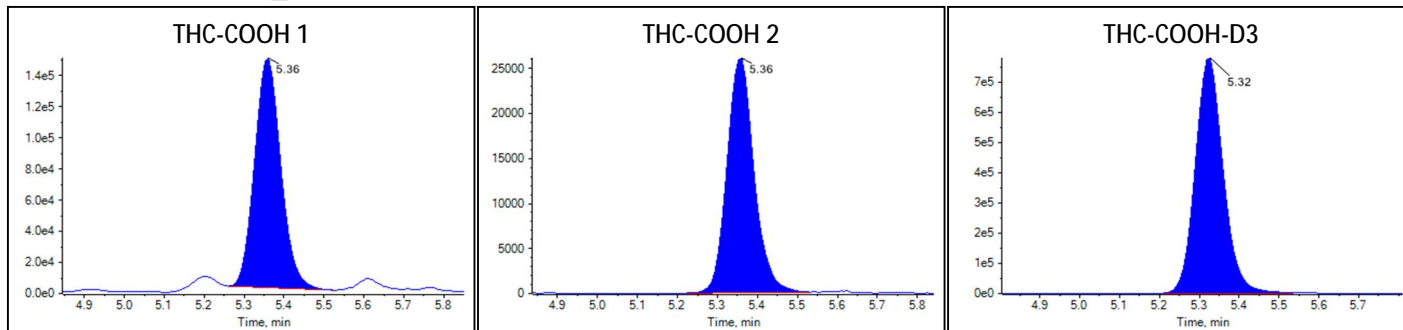
Identification Summary: 0.4 FX_2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.007(Pass)	
THC-OH 2	331.1 / 105.1	1.006(Pass)	0.487(Pass)
Δ 9-THC 1	315.1 / 193.1	1.004(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.004(Pass)	0.734(Pass)
Δ 8-THC 1	315.1 / 193.1	1.004(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.004(Pass)	0.560(Fail)
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.006(Pass)	0.182(Pass)

Peak Review: 0.4 FX_2



Peak Review: 0.4 FX_2



Sample Summary

Sample Name	0.4 GA_1
Acquisition Date/Time	9/19/2022 10:00:09 PM
Acquisition Method	THC.dam
Batch Name	20220919 TSF_LOD.dab
Results Table	20220919TSF LOD
Sample Type	Unknown
File Name	20220919 TSF LOD.wiff
Position	50
Sample Comment	

Quantitative Summary

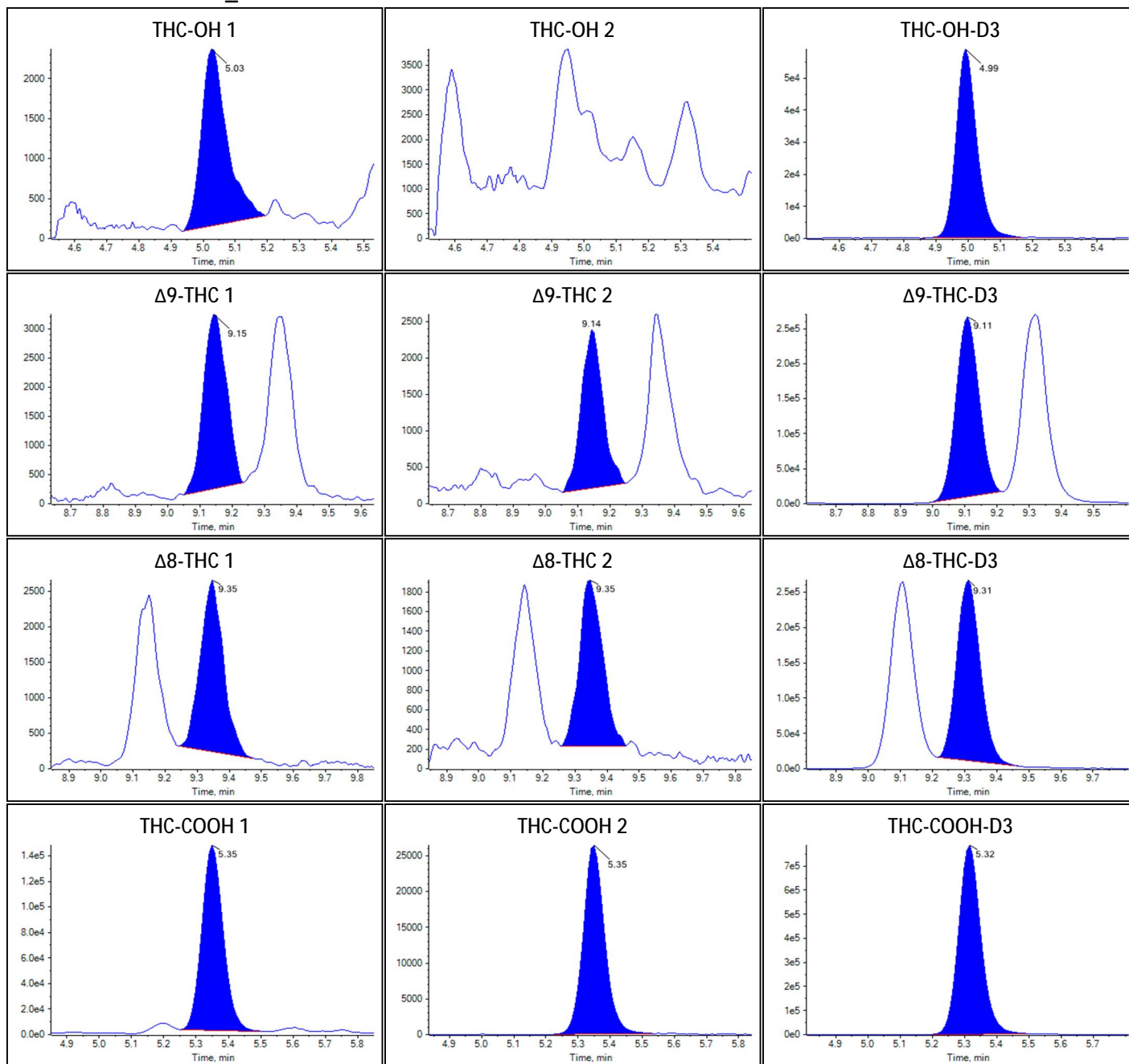
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.0470	0.365		
Δ9-THC	0.0117	0.517		
Δ8-THC	0.0092	0.564		
THC-COOH	0.1760	1.393		

Identification Summary: 0.4 GA_1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.007(Pass)	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ9-THC 1	315.1 / 193.1	1.004(Pass)	
Δ9-THC 2	315.1 / 123.0	1.004(Pass)	0.677(Pass)
Δ8-THC 1	315.1 / 193.1	1.004(Pass)	
Δ8-THC 2	315.1 / 123.1	1.004(Pass)	0.715(Pass)
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.006(Pass)	0.184(Pass)

Peak Review: 0.4 GA_1

Peak Review: 0.4 GA_1



Sample Summary

Quantitative Analytes Report

Sample Name	0.4 GA_2
Acquisition Date/Time	9/19/2022 10:14:14 PM
Acquisition Method	THC.dam
Batch Name	20220919 TSF_LOD.dab
Results Table	20220919TSF LOD
Sample Type	Unknown
File Name	20220919 TSF LOD.wiff
Position	51
Sample Comment	

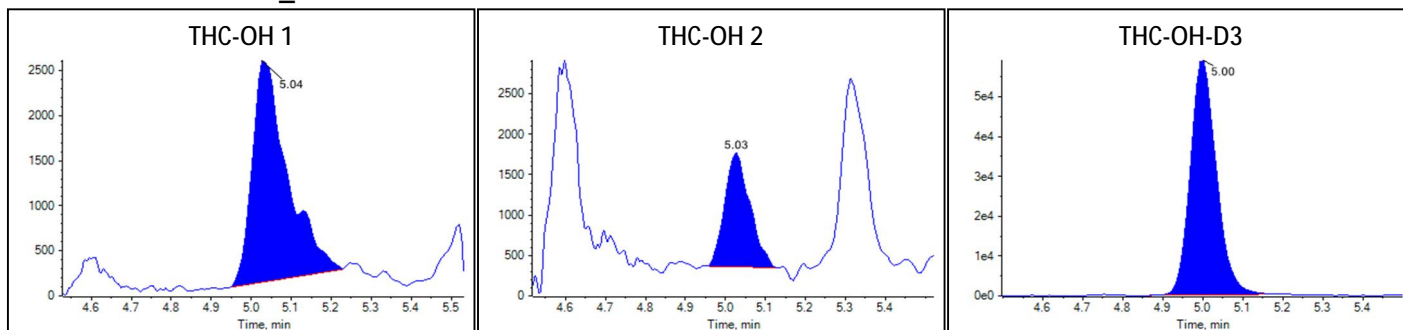
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.0565	0.443		
Δ9-THC	0.0113	0.505		
Δ8-THC	0.0096	0.579		
THC-COOH	0.1744	1.378		

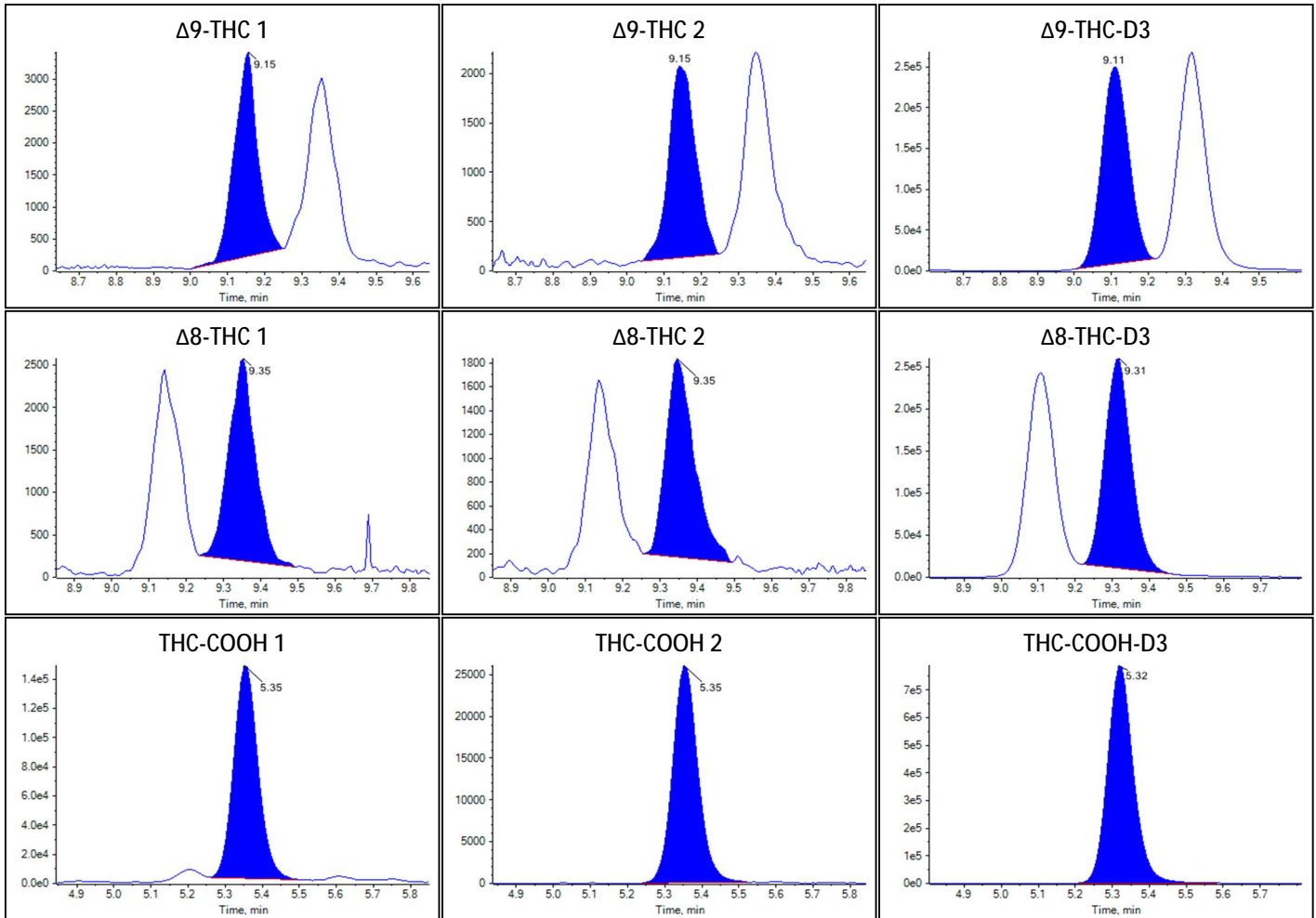
Identification Summary: 0.4 GA_2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.008(Pass)	
THC-OH 2	331.1 / 105.1	1.006(Pass)	0.409(Fail)
Δ9-THC 1	315.1 / 193.1	1.004(Pass)	
Δ9-THC 2	315.1 / 123.0	1.004(Pass)	0.714(Pass)
Δ8-THC 1	315.1 / 193.1	1.004(Pass)	
Δ8-THC 2	315.1 / 123.1	1.004(Pass)	0.744(Pass)
THC-COOH 1	343.0 / 299.1	1.006(Pass)	
THC-COOH 2	343.0 / 191.0	1.006(Pass)	0.185(Pass)

Peak Review: 0.4 GA_2



Peak Review: 0.4 GA_2



Cannabinoid Lot Log	
Date	9-20-22
Analyst	SR
Checked tubes	
Sample preparation	
Sample Pipette	007
Blank Blood	FL3
Standards	9-14-22 JLG
Controls	9-14-22 JLG
Standards/Controls Pipette	064
Internal Standard	9-14-22 SB
Internal Standard Pipette	103
0.1 % formic acid in H ₂ O	9-16-22 DMC
Extraction	
SLE Cartridge	22061206CA
MTBE	L322A-3
B: 0.1% formic acid in ACN	8-29-22 SB
A: 0.1 % formic acid in H ₂ O	9-14-22 DMC
Instrumentation	
A: 0.1 % formic acid in H ₂ O	9-1-22 HK
B: 0.1% formic acid in ACN	9-17-22 SB
Column Serial Number	USCGC17438
Instrument	21-1
Sequence Check:	
Notes: 10x Std 6 Δ ⁸ THC: FE 02172272-2 Δ ⁹ THC: FE 09162102-2 THC-OH: FE 09182008-2 THC-COOH: FN 09252110-2 M ₂ OH: 22D2062006-3 F ₁ ask: 3701	



Sample Summary

Sample Name	Standard 1
Acquisition Date/Time	9/20/2022 4:11:39 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK LOD
Sample Type	Standard
File Name	20220920 SK.wiff
Position	30
Sample Comment	

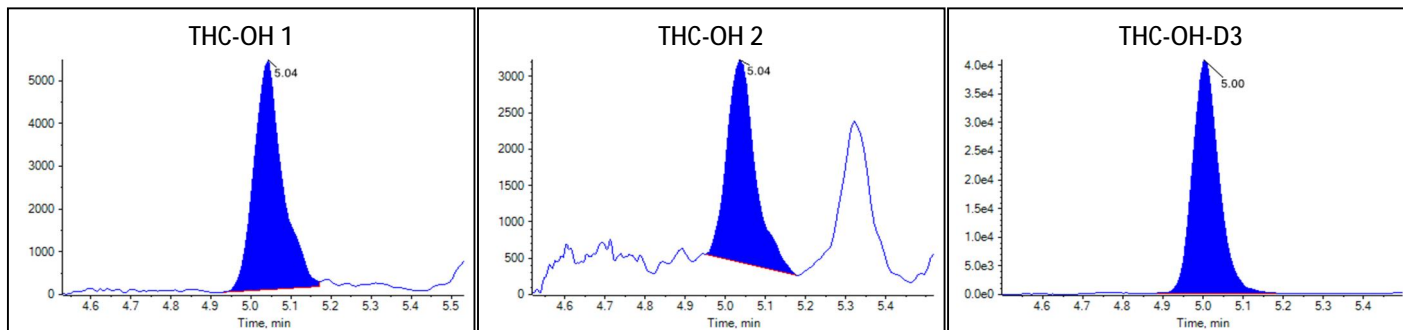
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.435e-1	1.126		
Δ 9-THC	2.970e-2	1.130		
Δ 8-THC	2.177e-2	1.159		
THC-COOH	6.093e-1	5.279		

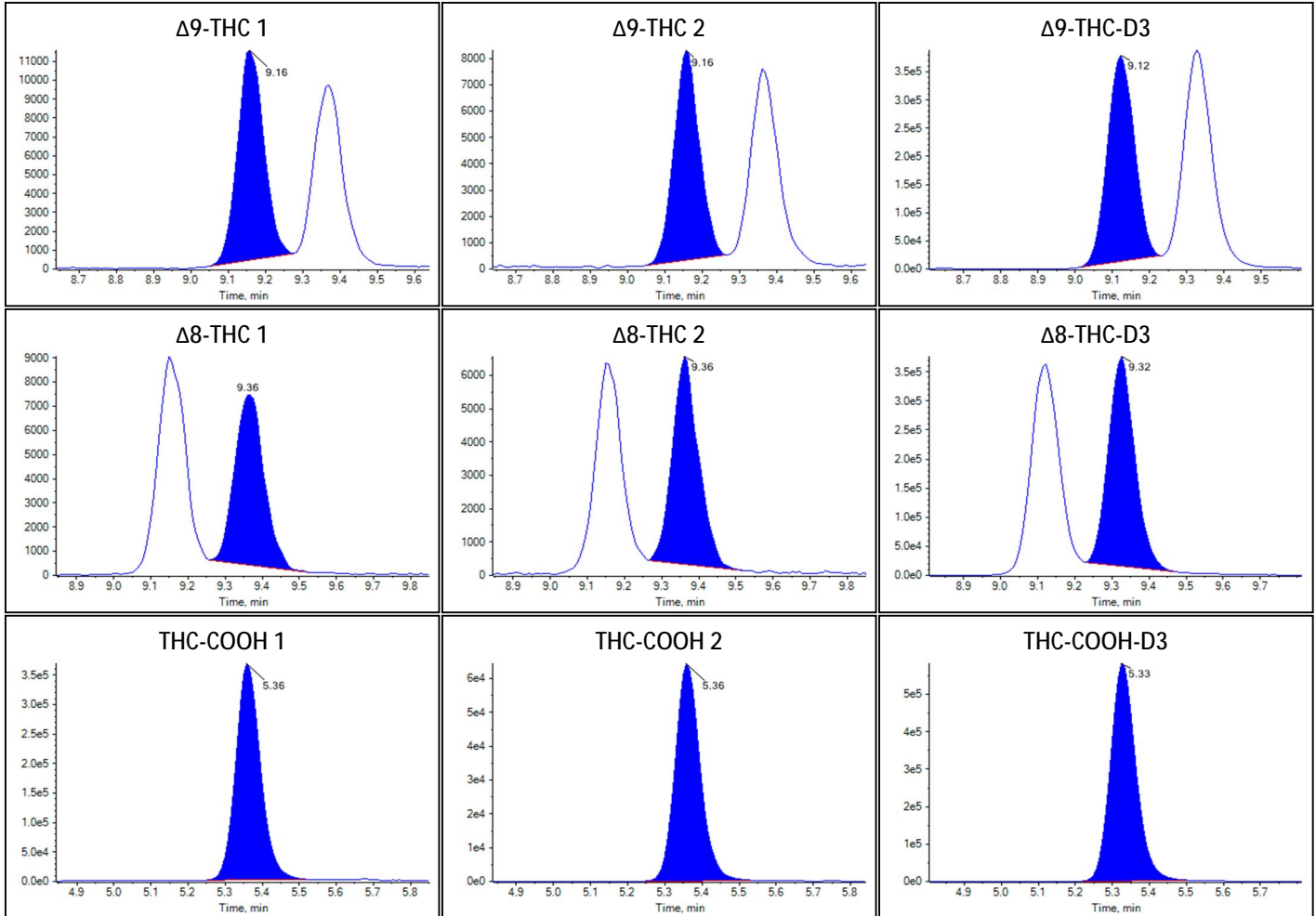
Identification Summary: Standard 1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.516(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.689(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.785(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.178(Pass)

Peak Review: Standard 1



Peak Review: Standard 1



Sample Summary

Sample Name	Standard 2
Acquisition Date/Time	9/20/2022 4:25:44 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK LOD
Sample Type	Standard
File Name	20220920 SK.wiff
Position	31
Sample Comment	

Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	4.215e-1	3.558		
Delta9-THC	1.211e-1	4.379		
Delta8-THC	9.078e-2	4.217		

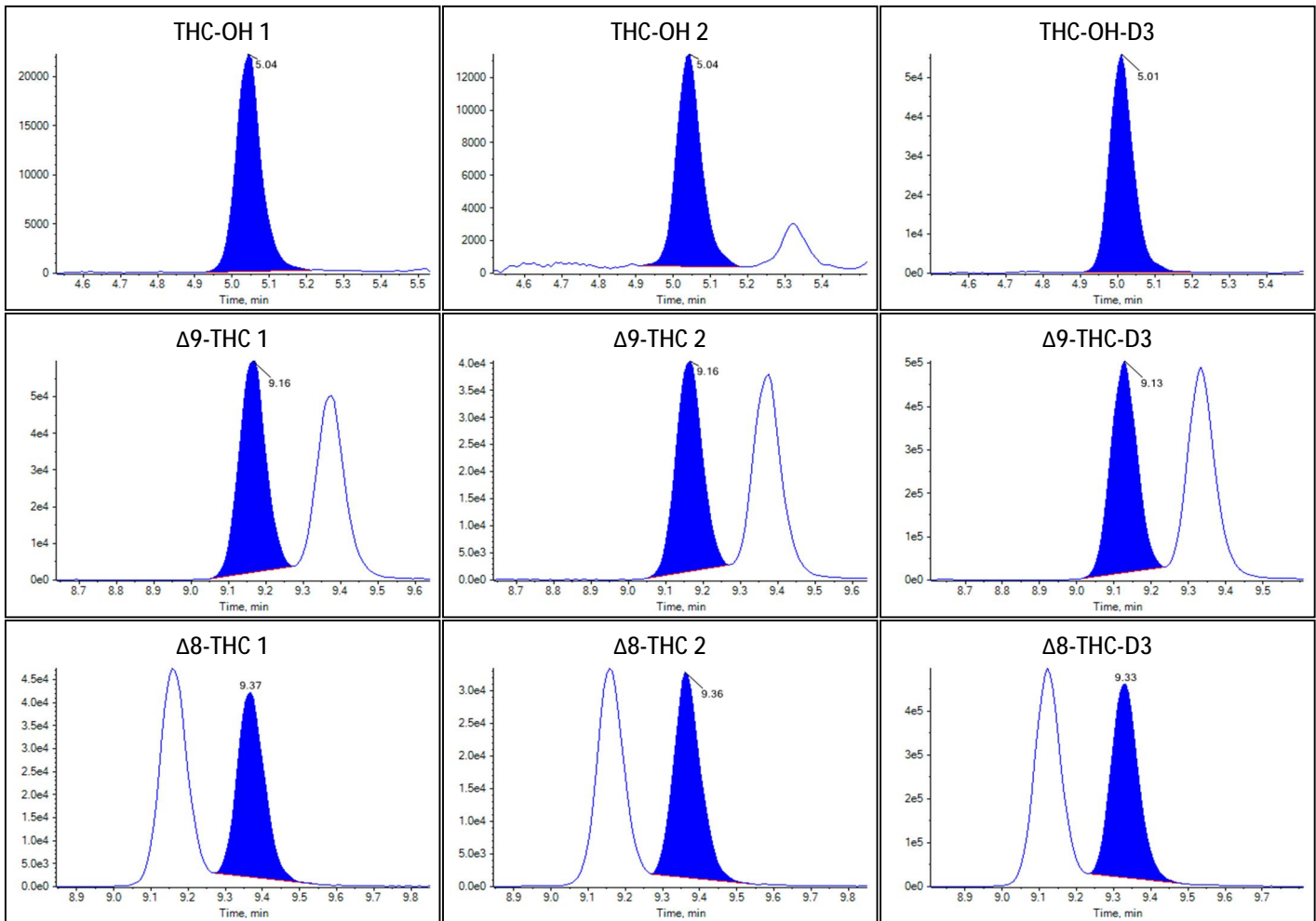
Quantitative Analytes Report

THC-COOH	1.003e0	9.327		
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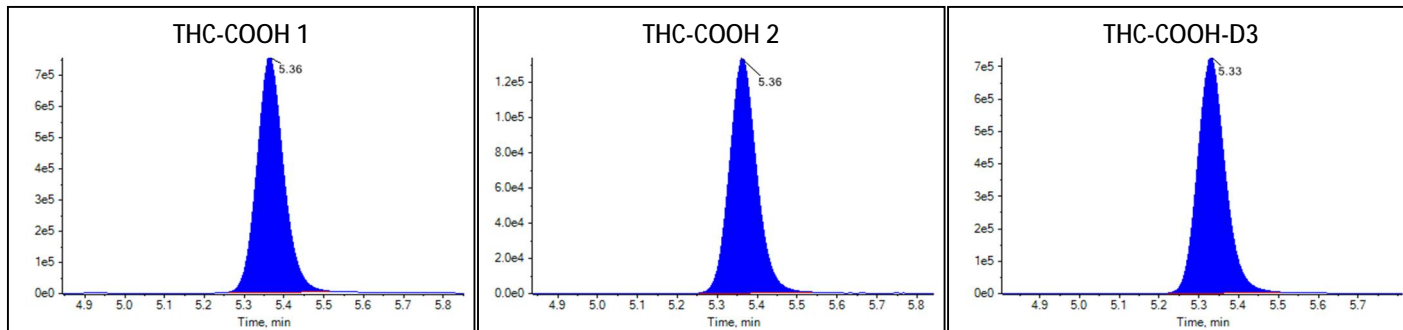
Identification Summary: Standard 2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.588(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.665(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.776(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.179(Pass)

Peak Review: Standard 2



Peak Review: Standard 2



Sample Summary

Sample Name	Standard 3
Acquisition Date/Time	9/20/2022 4:39:49 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK LOD
Sample Type	Standard
File Name	20220920 SK.wiff
Position	32
Sample Comment	

Quantitative Summary

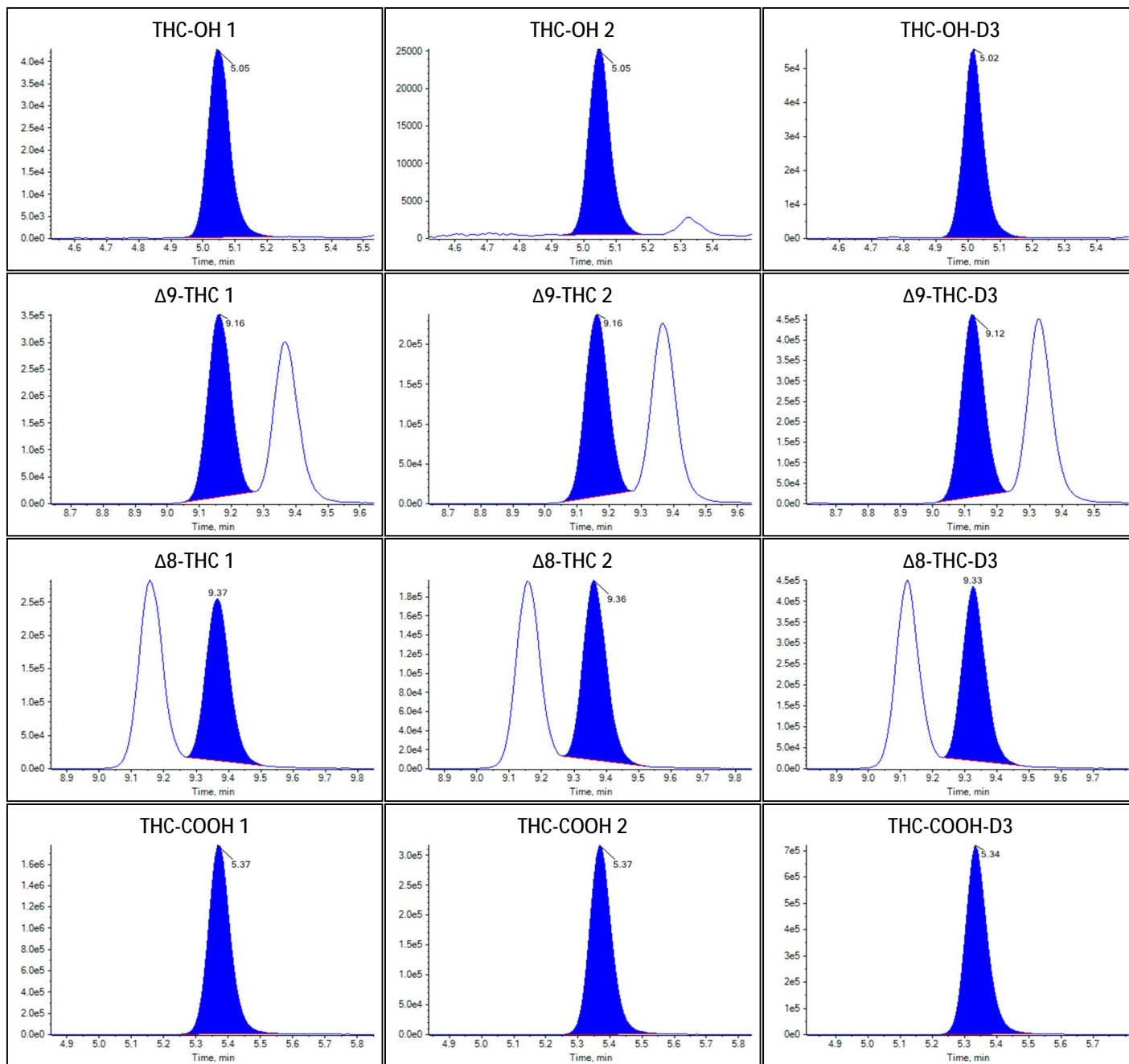
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	8.438e-1	7.254		
Δ 9-THC	7.757e-1	28.336		
Δ 8-THC	6.009e-1	28.310		
THC-COOH	2.501e0	24.749		

Identification Summary: Standard 3

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.564(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.671(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.763(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.179(Pass)

Peak Review: Standard 3

Peak Review: Standard 3



Sample Summary

Quantitative Analytes Report

Sample Name	Standard 4
Acquisition Date/Time	9/20/2022 4:53:54 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK LOD
Sample Type	Standard
File Name	20220920 SK.wiff
Position	33
Sample Comment	

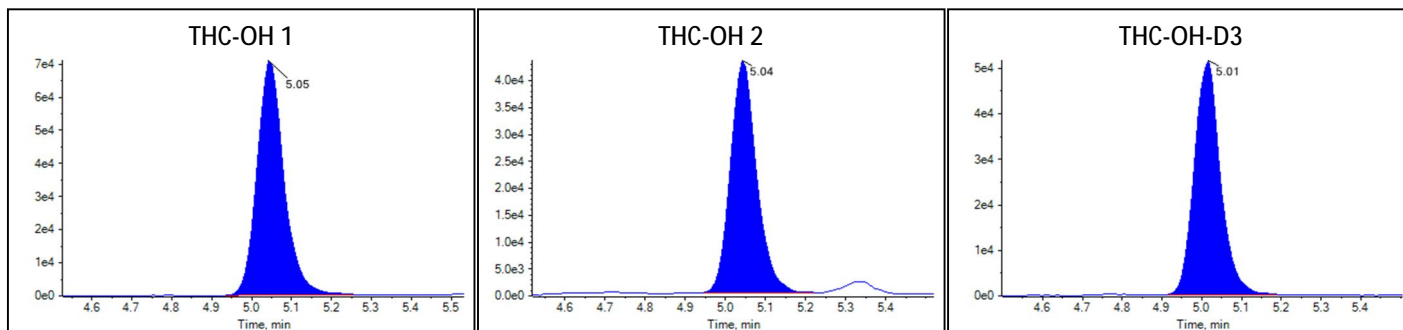
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.418e0	12.282		
Δ9-THC	1.366e0	51.076		
Δ8-THC	1.011e0	50.078		
THC-COOH	5.097e0	51.456		

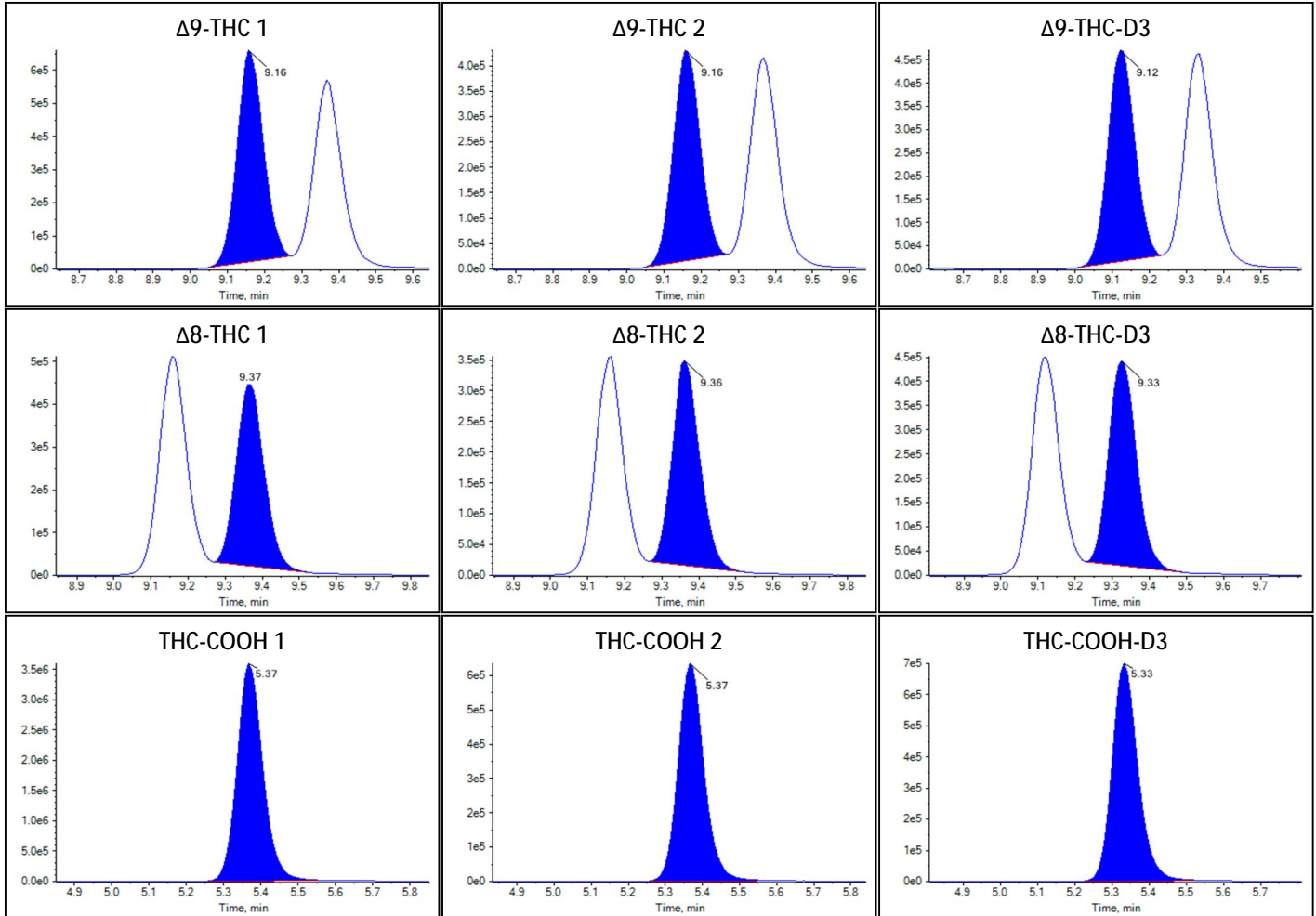
Identification Summary: Standard 4

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.592(Pass)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.665(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.765(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.178(Pass)

Peak Review: Standard 4



Peak Review: Standard 4



Sample Summary

Sample Name	Standard 5
Acquisition Date/Time	9/20/2022 5:08:00 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK LOD
Sample Type	Standard
File Name	20220920 SK.wiff
Position	34
Sample Comment	

Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.986e0	17.249		
Δ9-THC	1.935e0	74.187		
Δ8-THC	1.462e0	77.830		

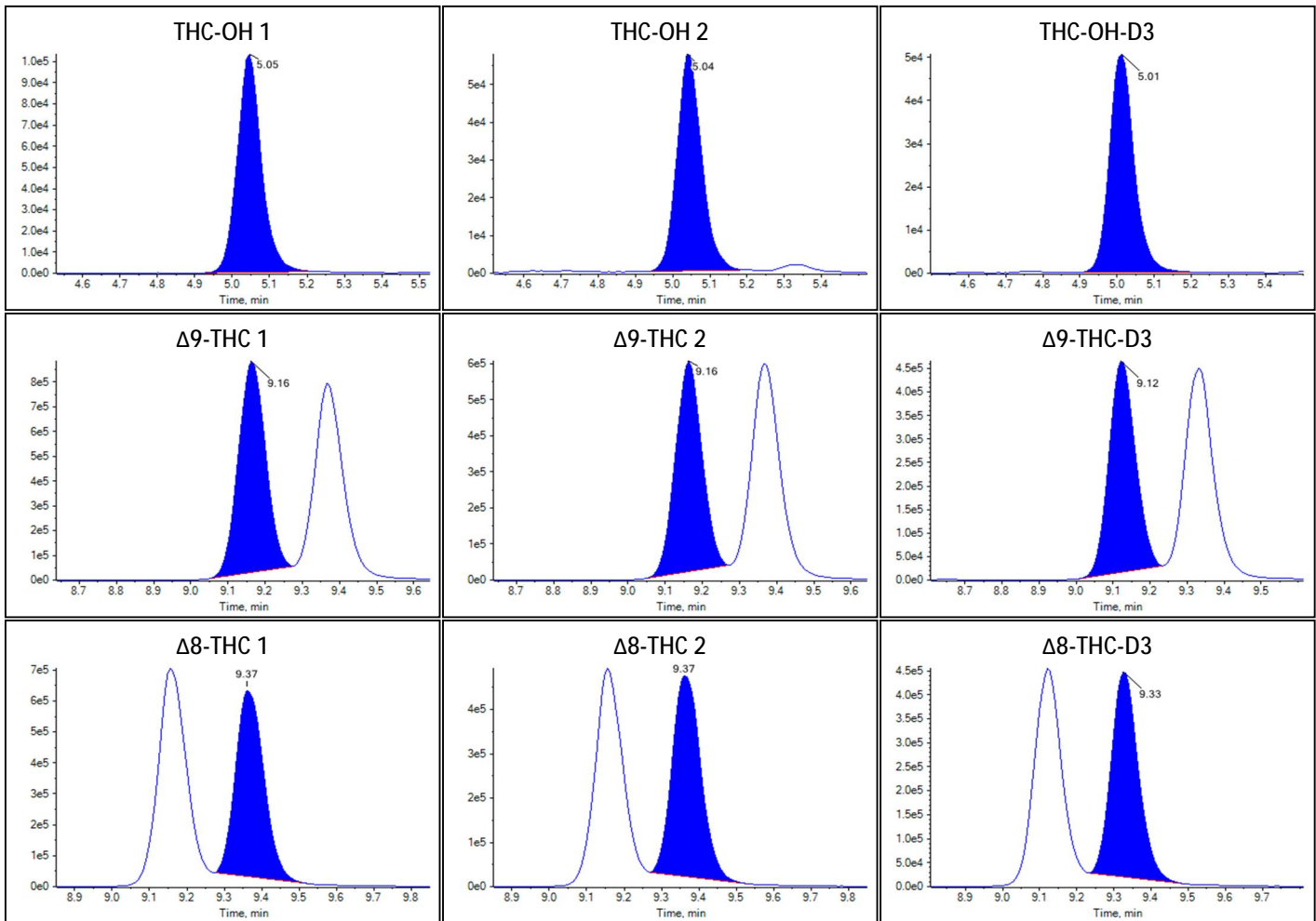
Quantitative Analytes Report

THC-COOH	7.399e0	75.146	
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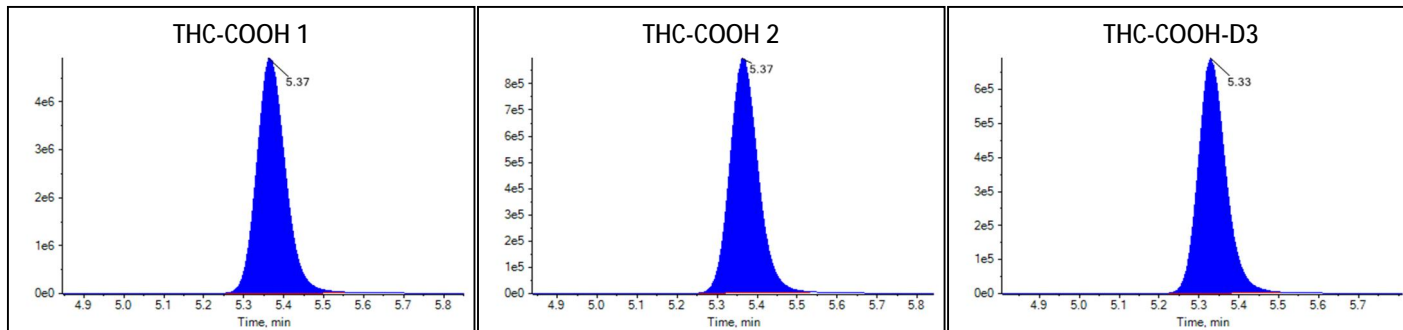
Identification Summary: Standard 5

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.573(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.670(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.763(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.179(Pass)

Peak Review: Standard 5



Peak Review: Standard 5



Sample Summary

Sample Name	Standard 6
Acquisition Date/Time	9/20/2022 5:22:02 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK LOD
Sample Type	Standard
File Name	20220920 SK.wiff
Position	35
Sample Comment	

Quantitative Summary

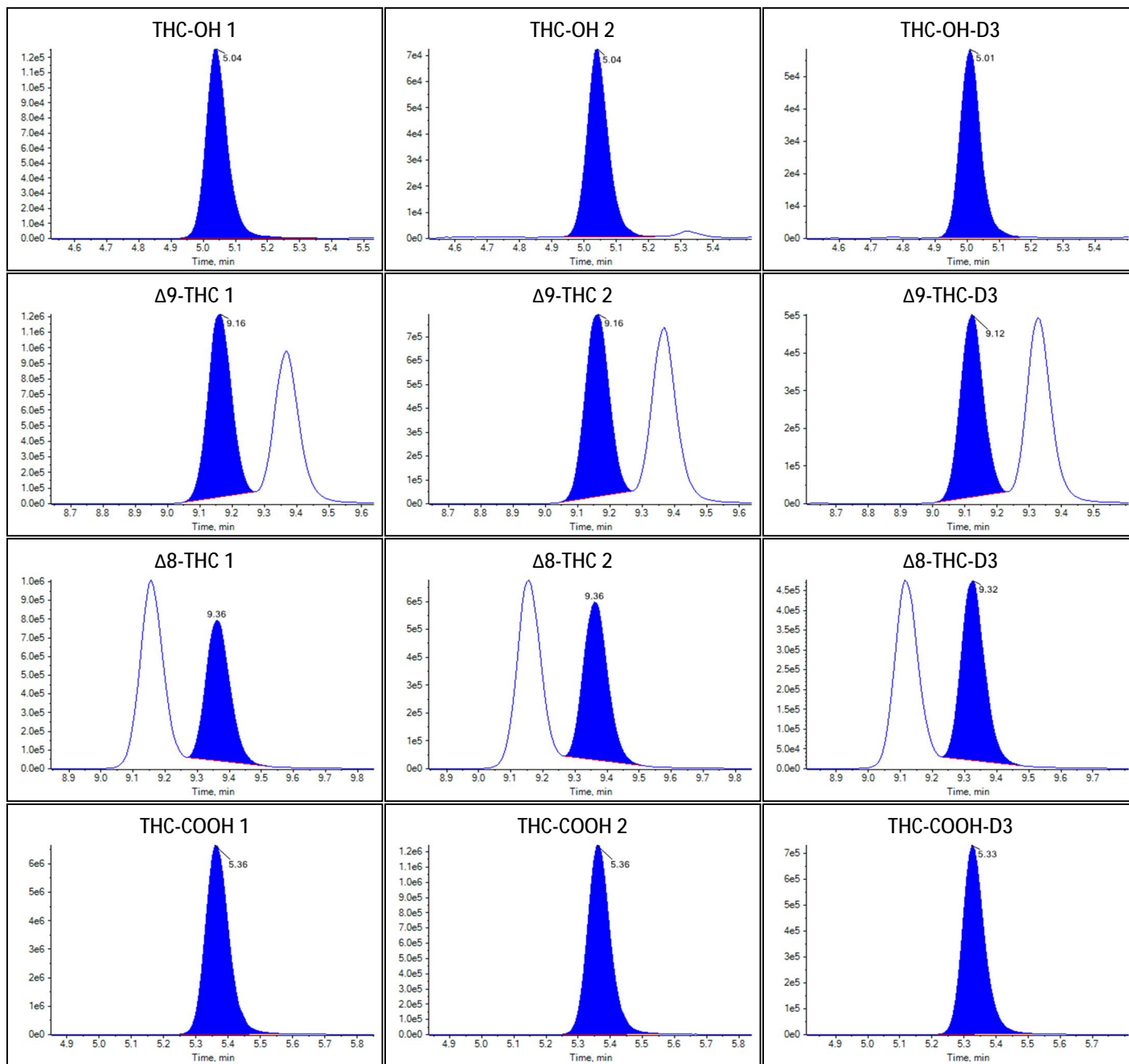
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.247e0	19.532		
Δ 9-THC	2.464e0	96.890		
Δ 8-THC	1.693e0	94.297		
THC-COOH	9.722e0	99.043		

Identification Summary: Standard 6

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.562(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.669(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.765(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.182(Pass)

Peak Review: Standard 6

Peak Review: Standard 6



Sample Summary

Quantitative Analytes Report

Sample Name	Low
Acquisition Date/Time	9/20/2022 5:36:08 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK LOD
Sample Type	Quality Control
File Name	20220920 SK.wiff
Position	36
Sample Comment	

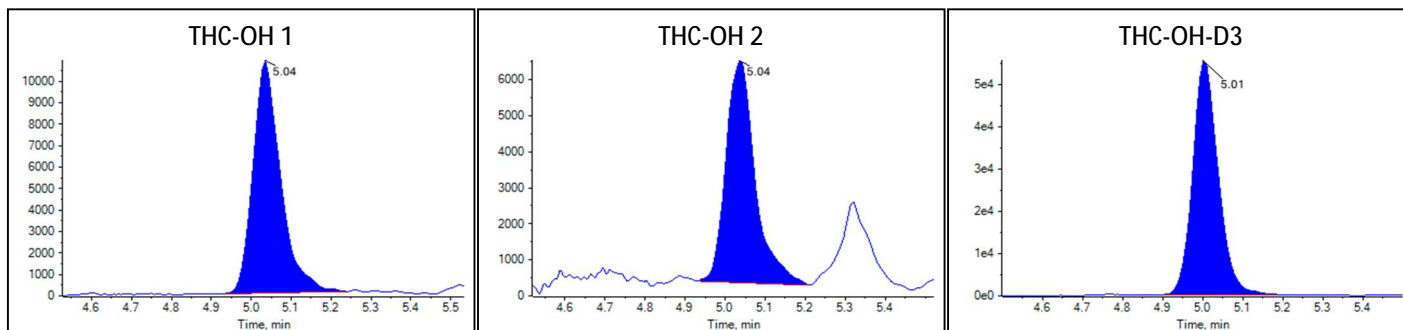
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.117e-1	1.722		
Δ9-THC	7.648e-2	2.791		
Δ8-THC	5.768e-2	2.745		
THC-COOH	7.461e-1	6.687		

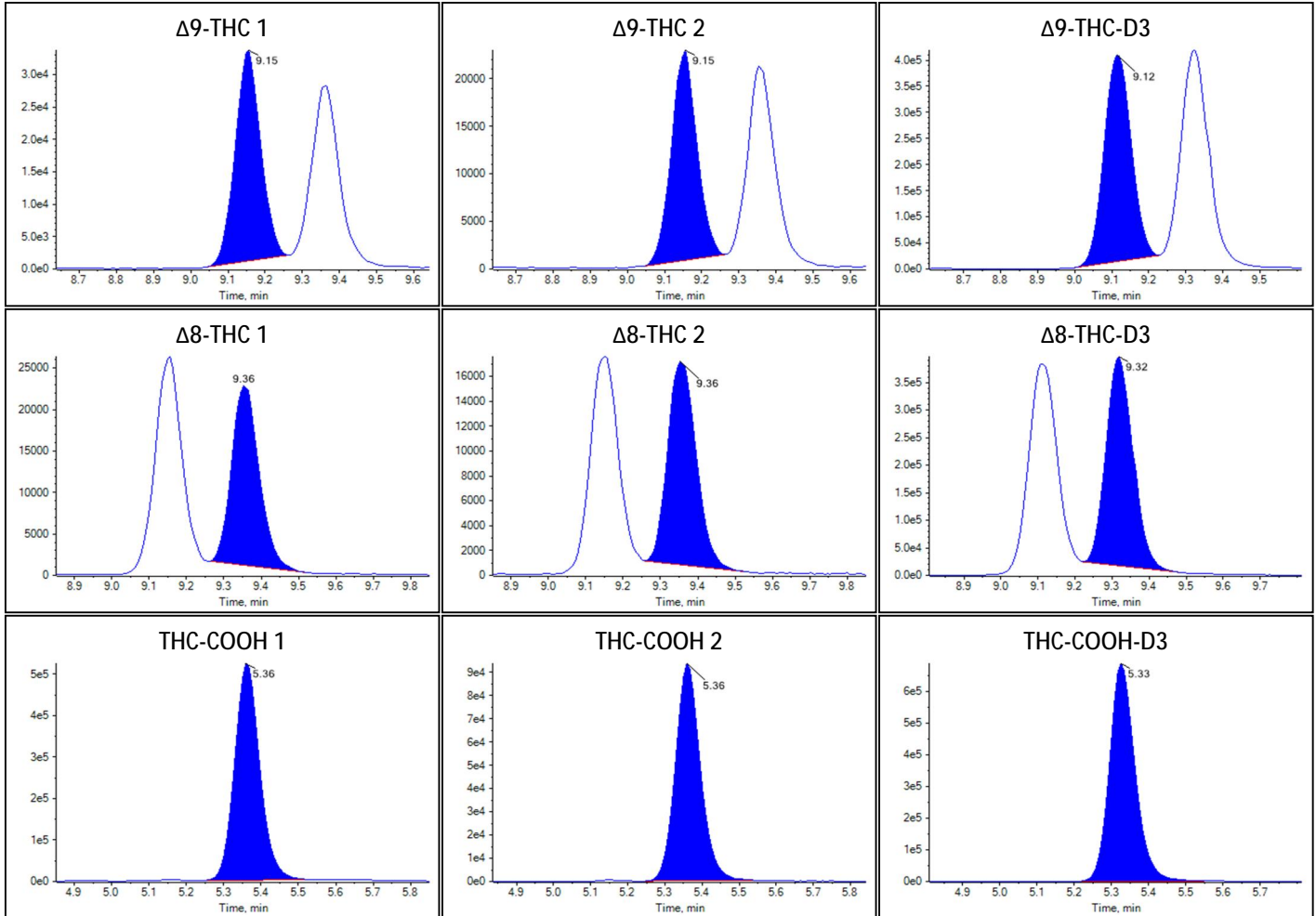
Identification Summary: Low

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.604(Pass)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.683(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.786(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.178(Pass)

Peak Review: Low



Peak Review: Low



Sample Summary

Sample Name	Medium
Acquisition Date/Time	9/20/2022 5:50:10 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK LOD
Sample Type	Quality Control
File Name	20220920 SK.wiff
Position	37
Sample Comment	

Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.147e0	9.907		
Δ9-THC	1.059e0	39.090		
Δ8-THC	7.911e-1	38.096		

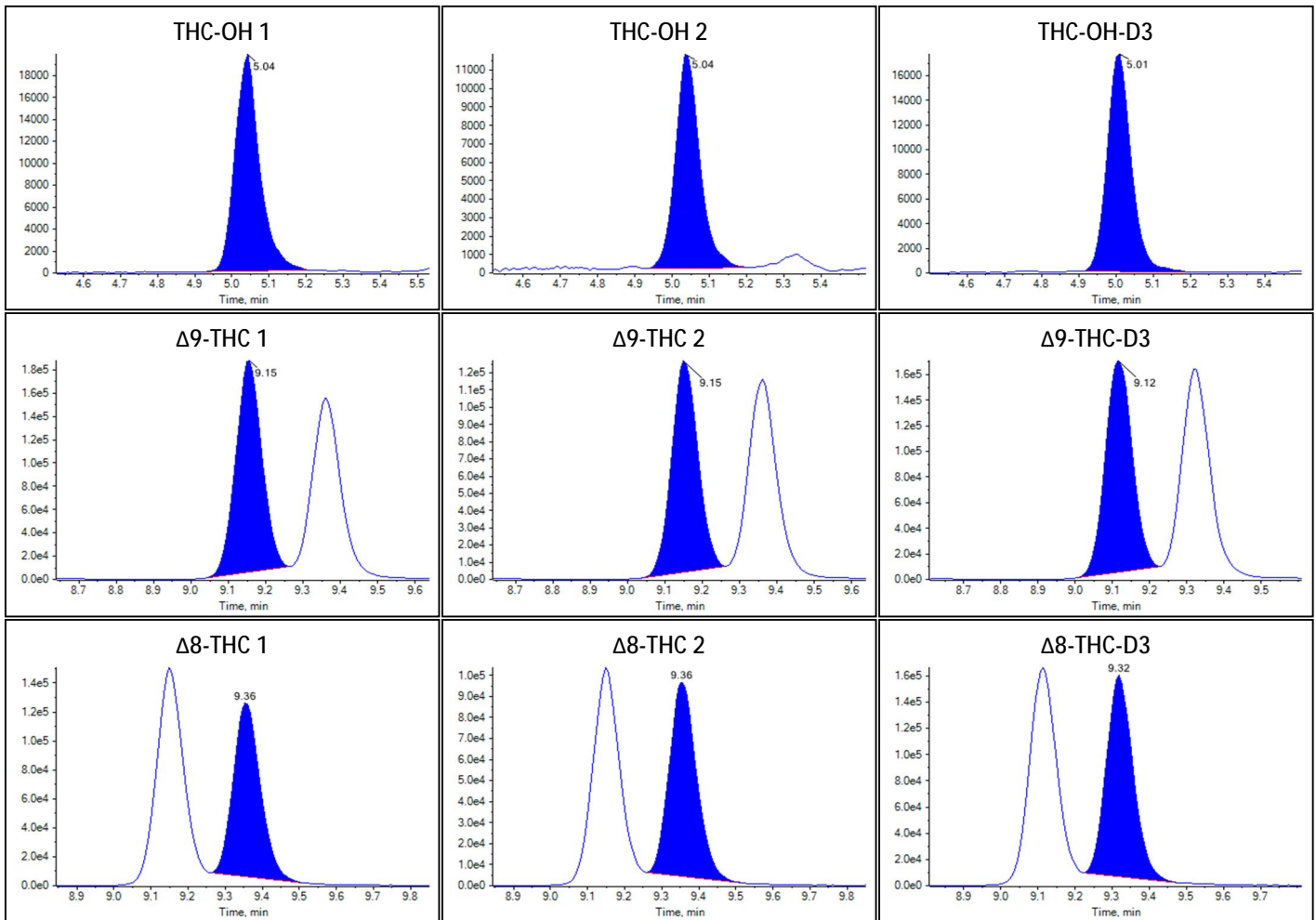
Quantitative Analytes Report

THC-COOH	4.049e0	40.672		
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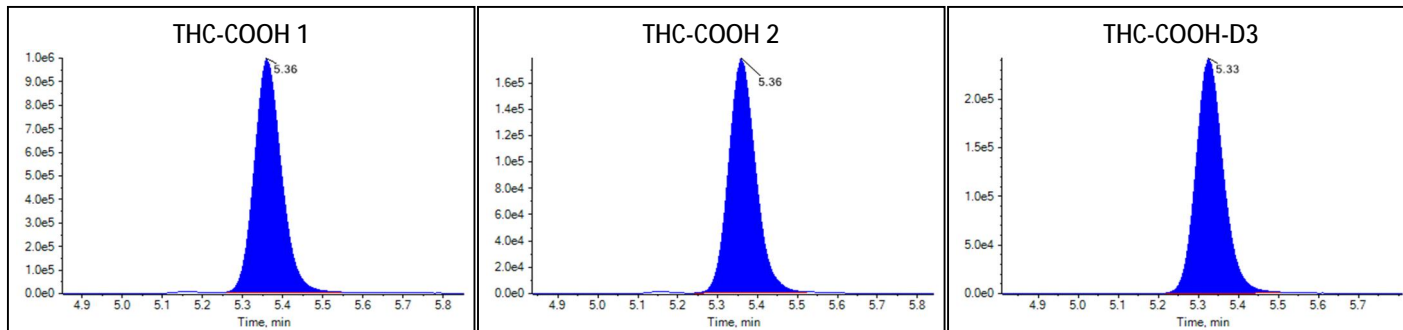
Identification Summary: Medium

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.583(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.682(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.779(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.179(Pass)

Peak Review: Medium



Peak Review: Medium



Sample Summary

Sample Name	High
Acquisition Date/Time	9/20/2022 6:04:12 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK LOD
Sample Type	Quality Control
File Name	20220920 SK.wiff
Position	38
Sample Comment	

Quantitative Summary

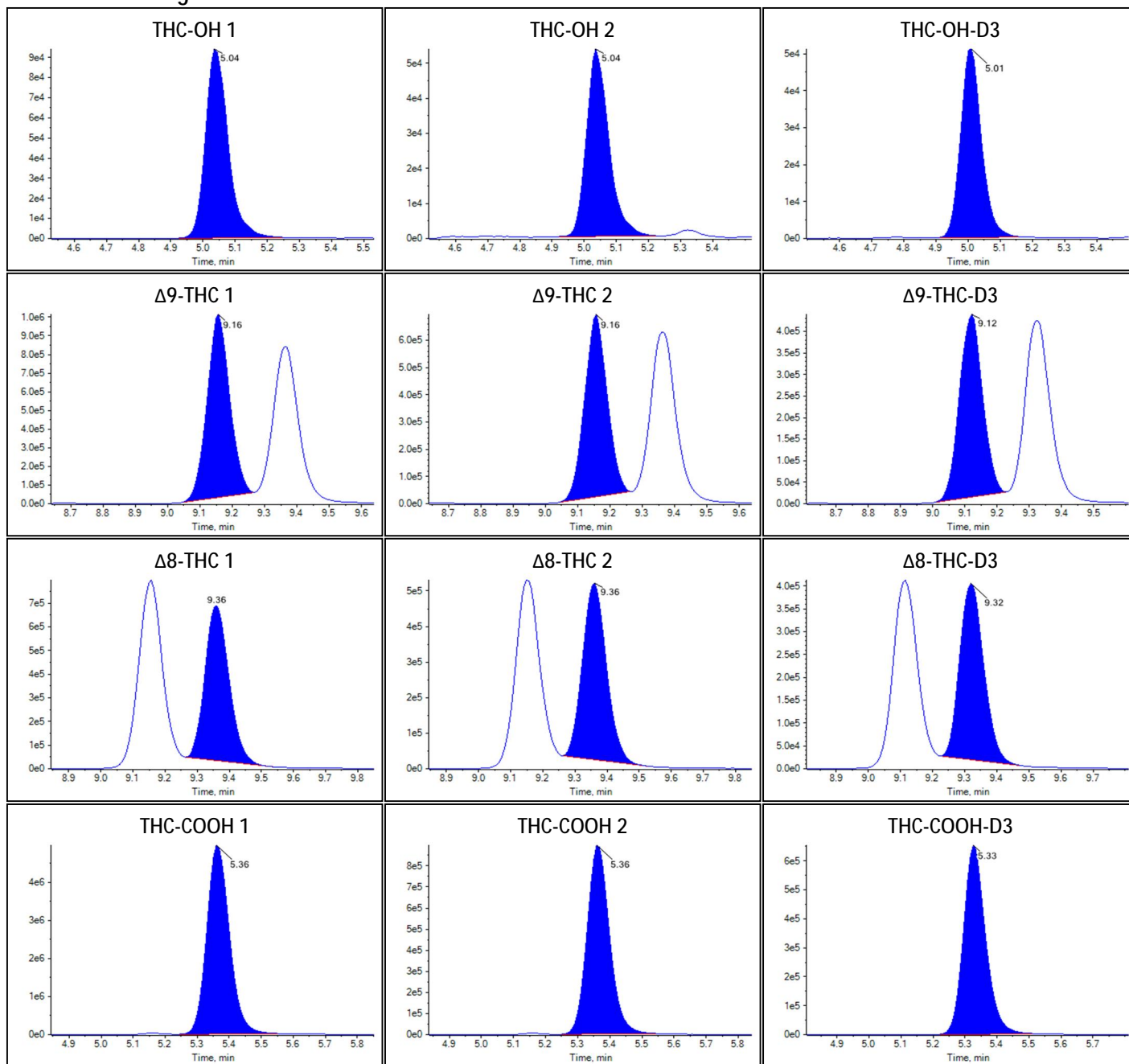
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.994e0	17.319		
Δ 9-THC	2.237e0	86.977		
Δ 8-THC	1.694e0	94.349		
THC-COOH	7.831e0	79.591		

Identification Summary: High

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.562(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.682(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.757(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.178(Pass)

Peak Review: High

Peak Review: High



Sample Summary

Quantitative Analytes Report

Sample Name	Negative
Acquisition Date/Time	9/20/2022 6:18:18 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK LOD
Sample Type	Quality Control
File Name	20220920 SK.wiff
Position	39
Sample Comment	

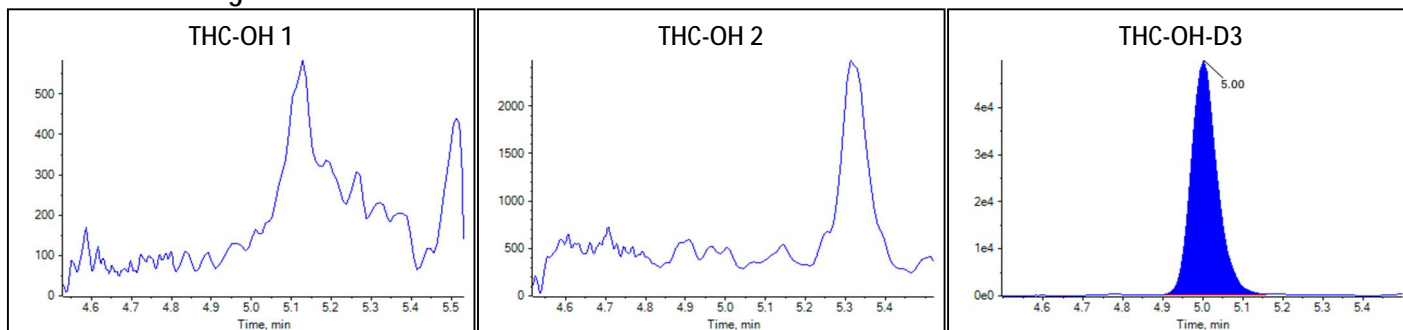
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	N/A	N/A		

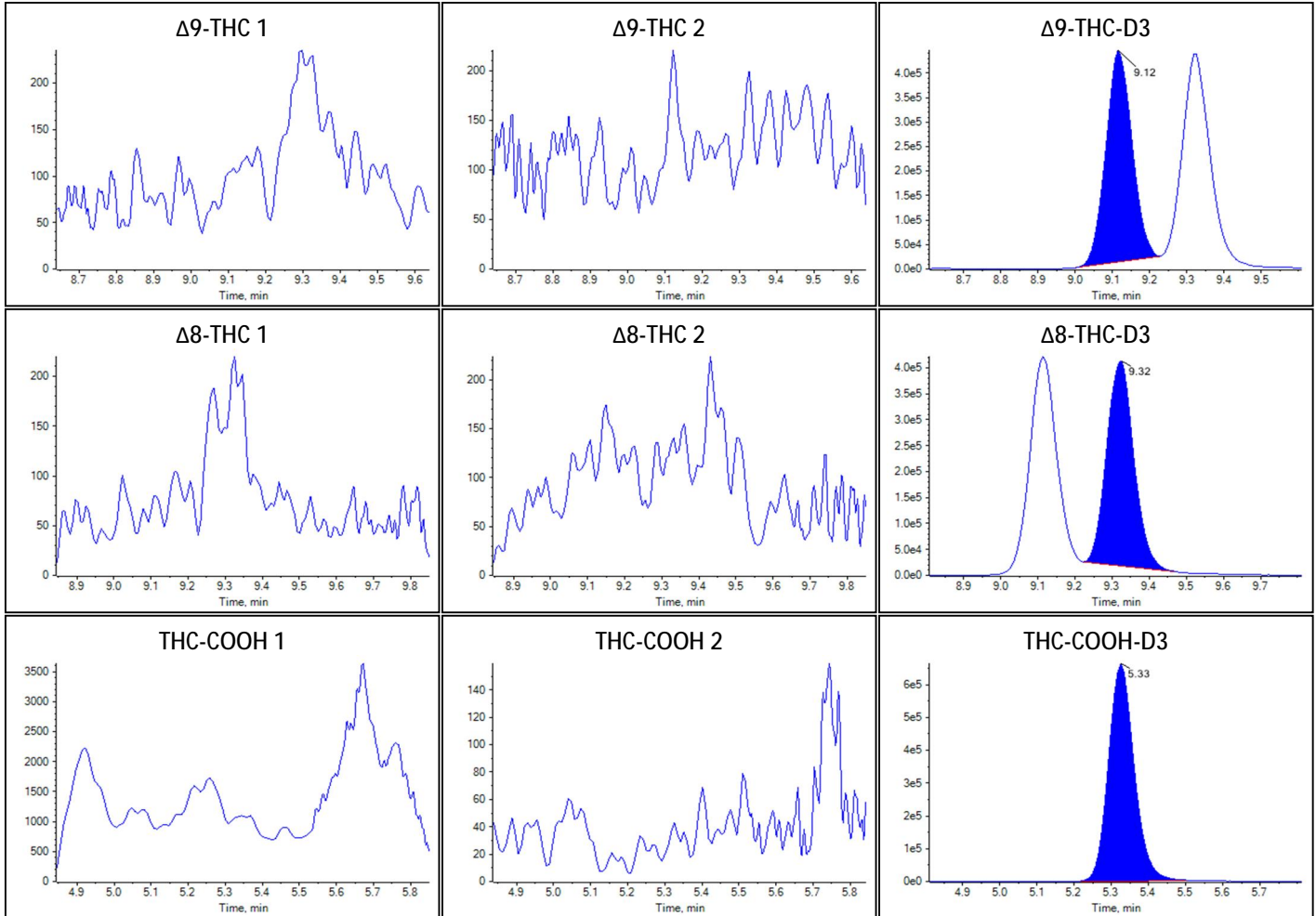
Identification Summary: Negative

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ^9 -THC 1	315.1 / 193.1	N/A	
Δ^9 -THC 2	315.1 / 123.0	N/A	N/A
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	N/A	
THC-COOH 2	343.0 / 191.0	N/A	N/A

Peak Review: Negative



Peak Review: Negative



Sample Summary

Sample Name	0.5 FR_1
Acquisition Date/Time	9/20/2022 6:32:23 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK LOD
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	40
Sample Comment	

Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	5.927e-2	0.388		
$\Delta 9$ -THC	1.228e-2	0.513		
$\Delta 8$ -THC	9.028e-3	0.599		

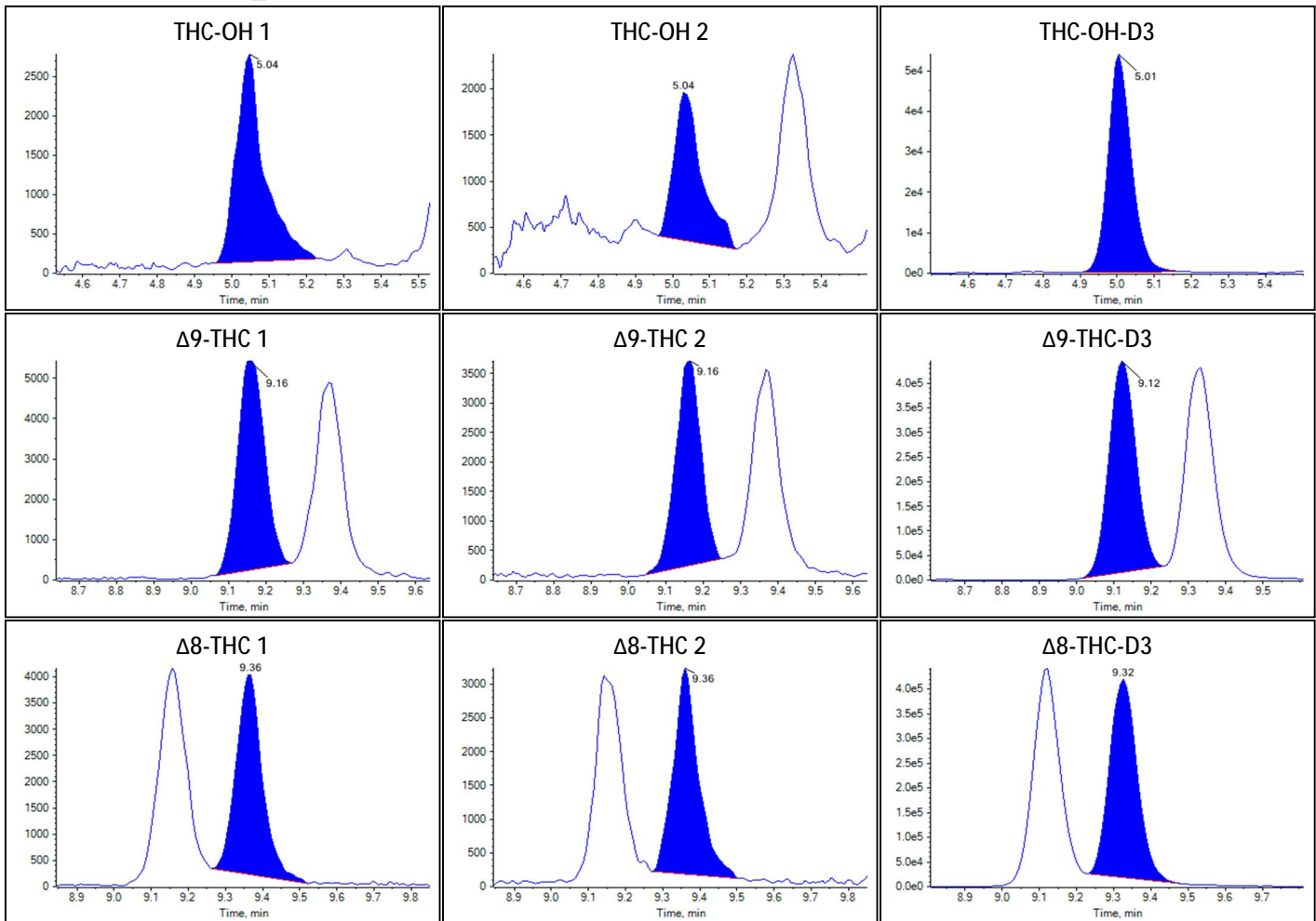
Quantitative Analytes Report

THC-COOH	2.298e-1	1.375	
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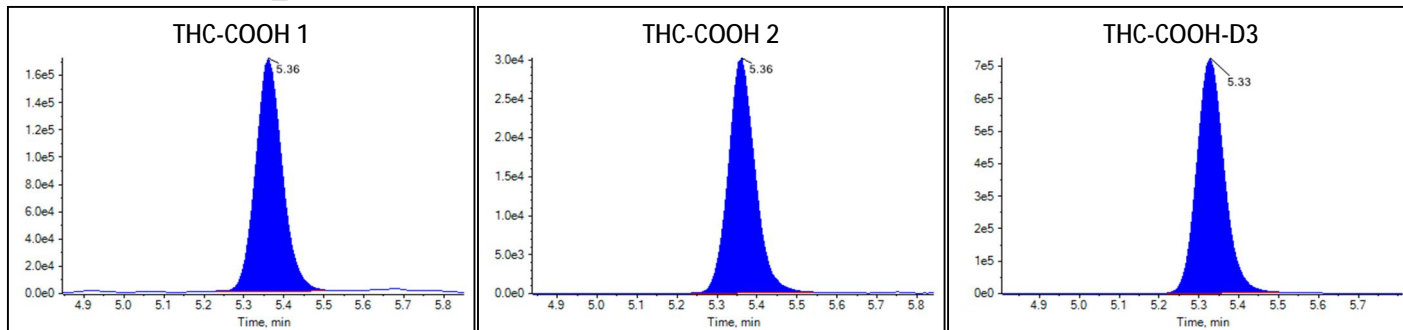
Identification Summary: 0.5 FR_1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.606(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.625(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.768(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.177(Pass)

Peak Review: 0.5 FR_1



Peak Review: 0.5 FR_1



Sample Summary

Sample Name	0.5 FR_2
Acquisition Date/Time	9/20/2022 6:46:29 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK LOD
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	41
Sample Comment	

Quantitative Summary

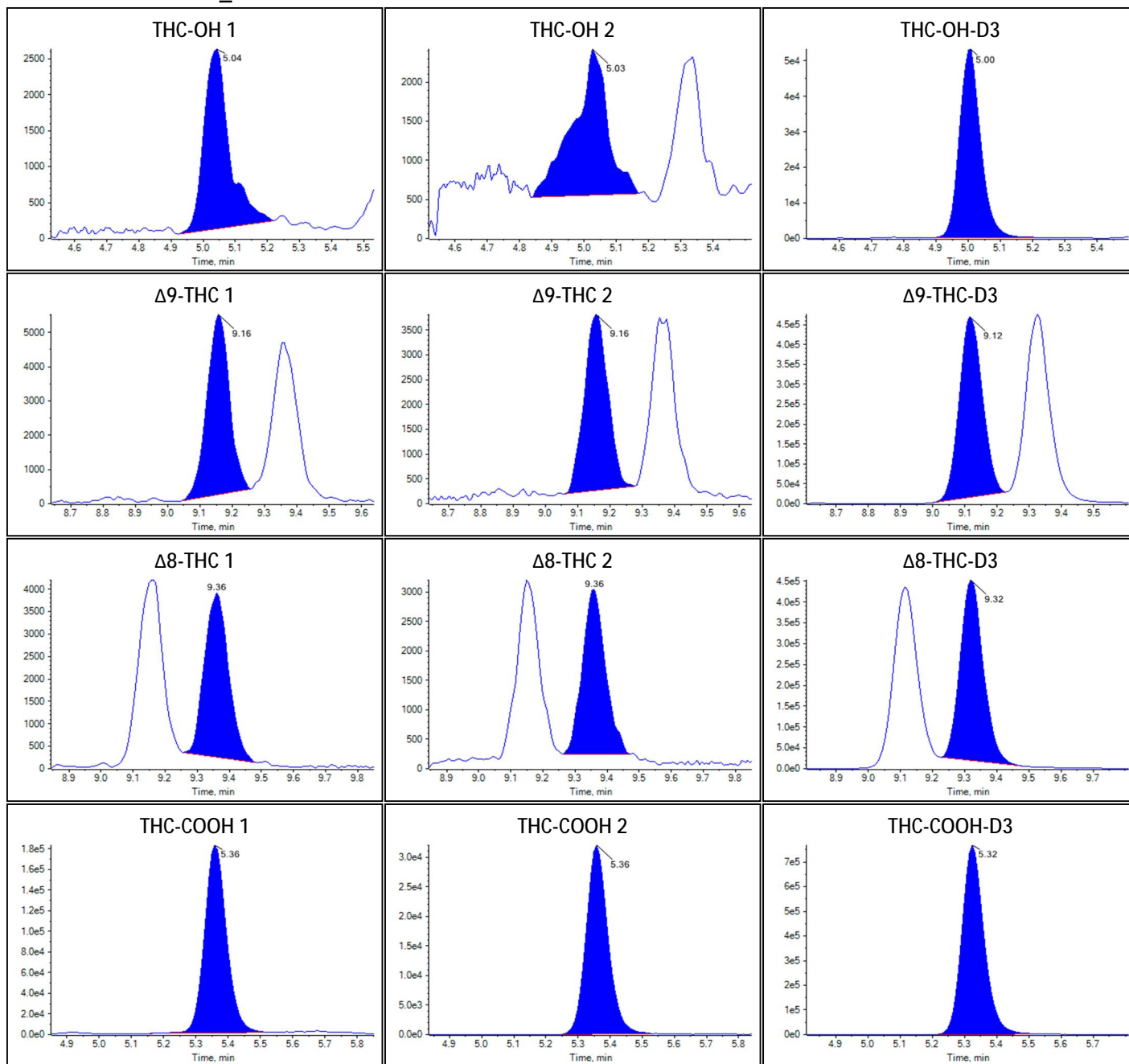
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	5.726e-2	0.371		
Δ9-THC	1.123e-2	0.476		
Δ8-THC	8.809e-3	0.590		
THC-COOH	2.359e-1	1.437		

Identification Summary: 0.5 FR_2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	1.008(Fail)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.712(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.730(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.175(Pass)

Peak Review: 0.5 FR_2

Peak Review: 0.5 FR_2



Sample Summary

Quantitative Analytes Report

Sample Name	0.5 FT_1
Acquisition Date/Time	9/20/2022 7:00:34 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK LOD
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	42
Sample Comment	

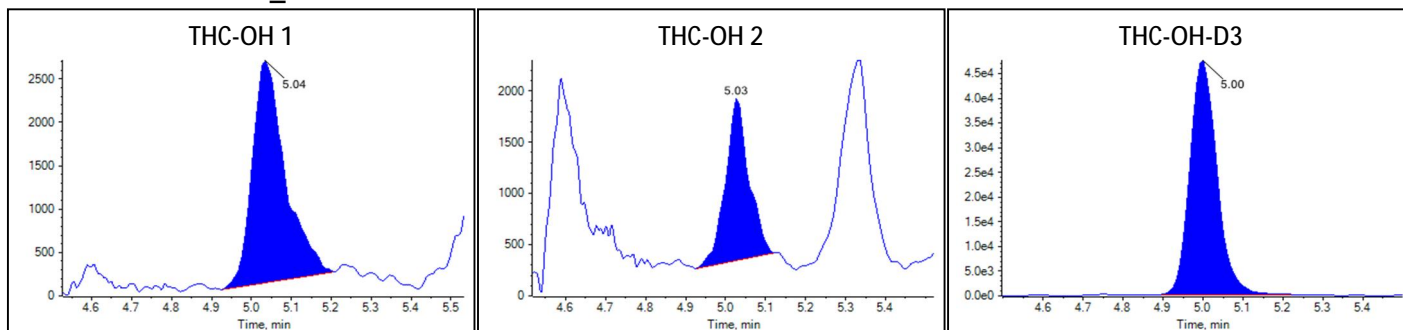
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	6.558e-2	0.444		
Δ9-THC	1.130e-2	0.479		
Δ8-THC	8.972e-3	0.597		
THC-COOH	2.164e-1	1.237		

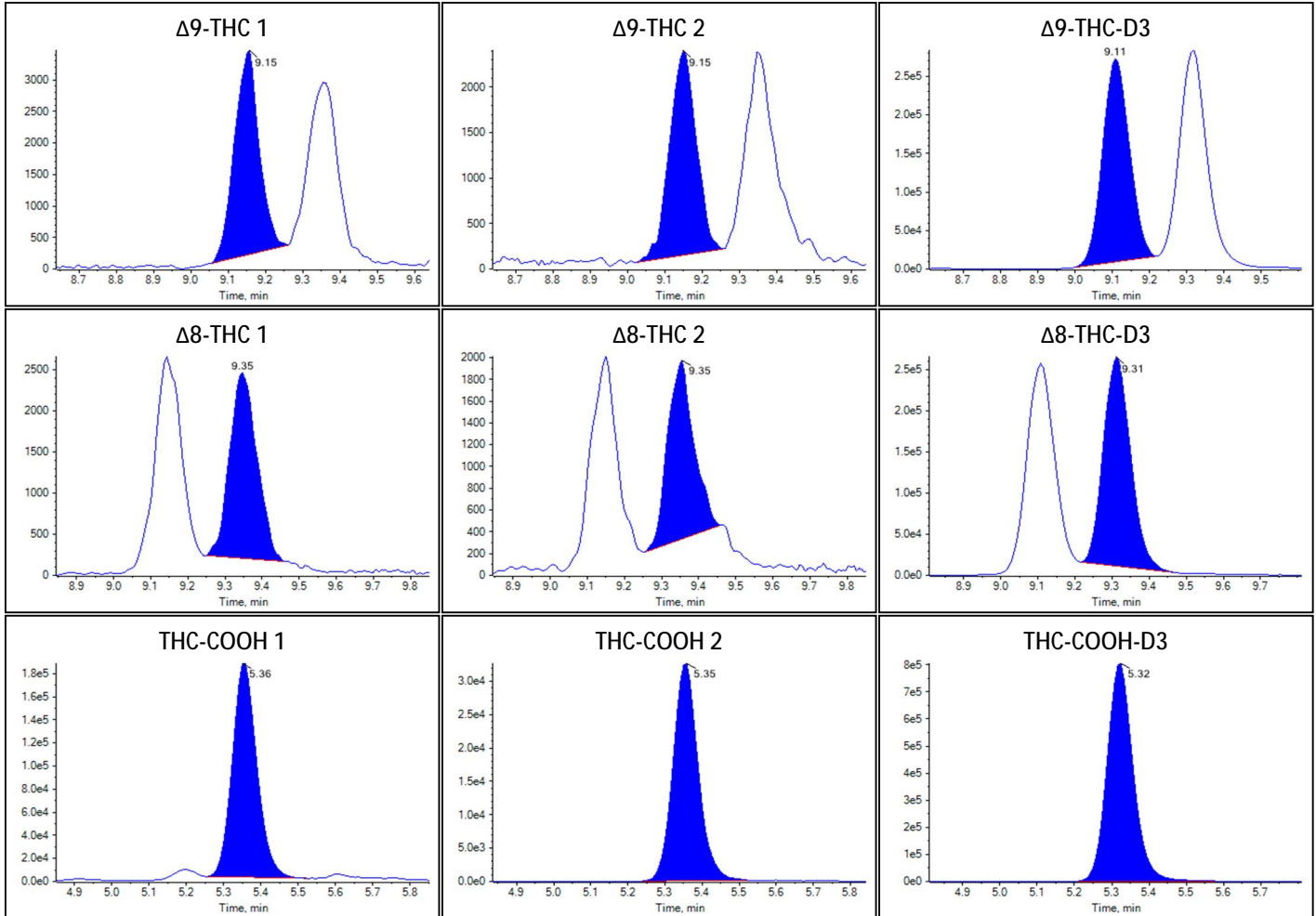
Identification Summary: 0.5 FT_1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.435(Fail)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.754(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.697(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.182(Pass)

Peak Review: 0.5 FT_1



Peak Review: 0.5 FT_1



Sample Summary

Sample Name	0.5 FT_2
Acquisition Date/Time	9/20/2022 7:14:39 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK LOD
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	43
Sample Comment	

Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	6.165e-2	0.409		
Δ9-THC	1.101e-2	0.468		
Δ8-THC	8.512e-3	0.577		

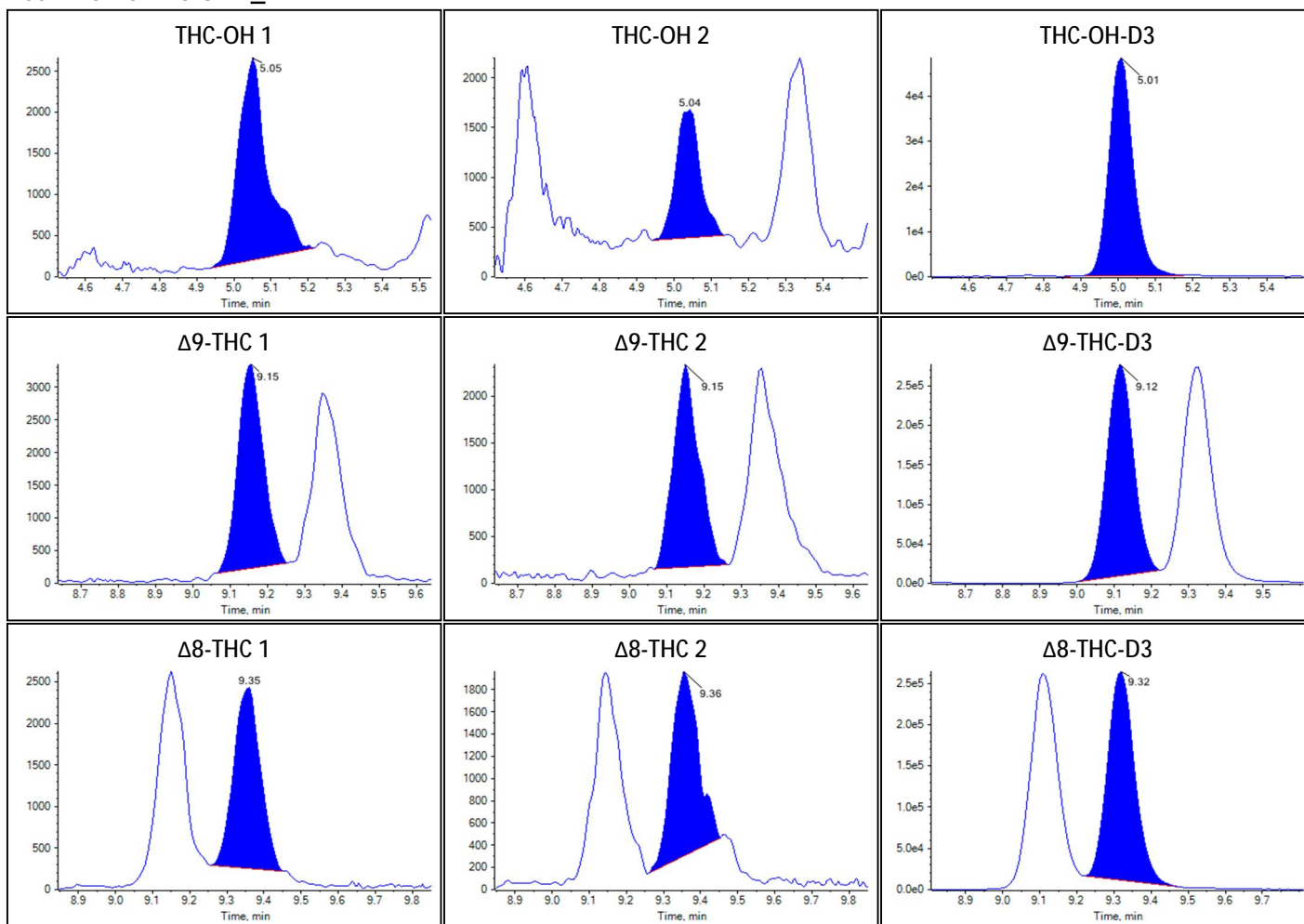
Quantitative Analytes Report

THC-COOH	2.208e-1	1.282	
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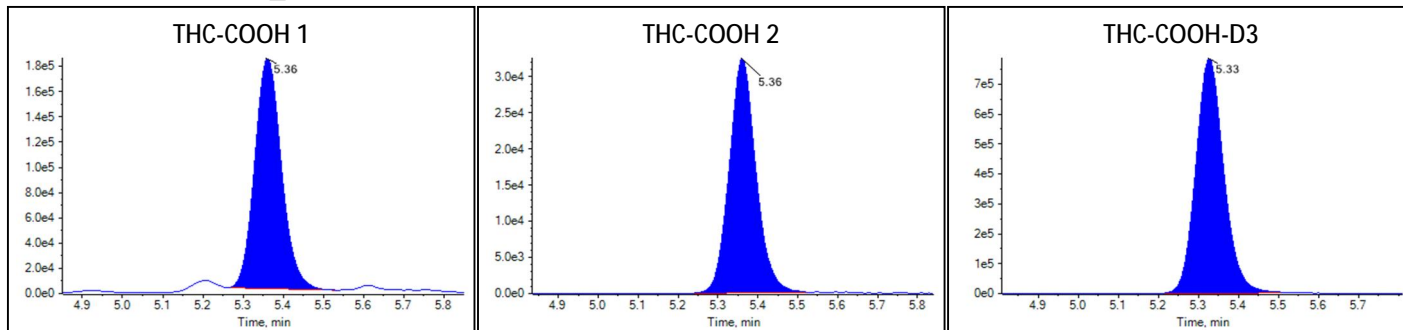
Identification Summary: 0.5 FT_2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.436(Fail)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.695(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.767(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.179(Pass)

Peak Review: 0.5 FT_2



Peak Review: 0.5 FT_2



Sample Summary

Sample Name	0.5 FU_1
Acquisition Date/Time	9/20/2022 7:28:45 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK LOD
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	44
Sample Comment	

Quantitative Summary

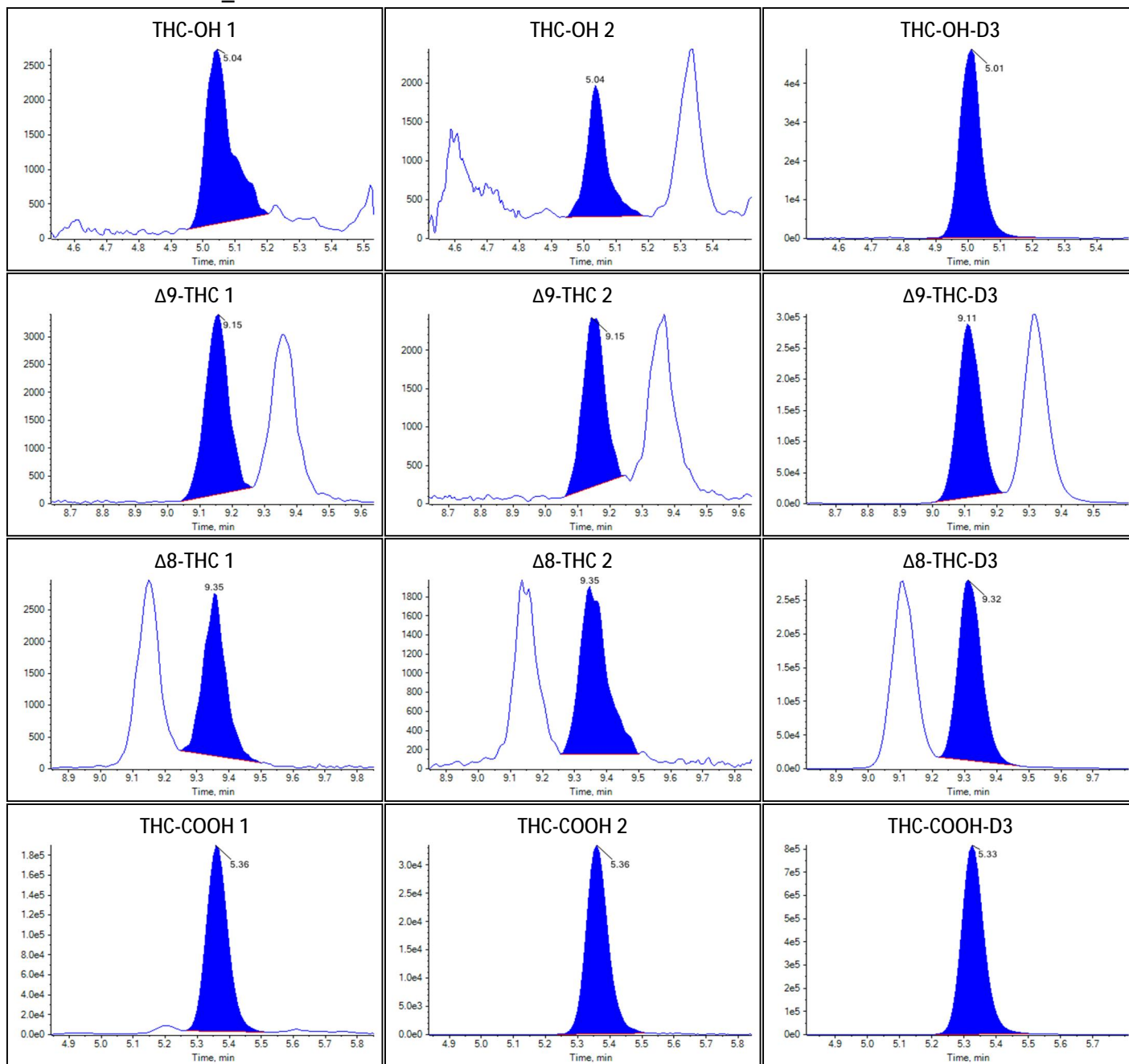
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	6.253e-2	0.417		
Δ9-THC	1.175e-2	0.494		
Δ8-THC	8.940e-3	0.595		
THC-COOH	2.209e-1	1.283		

Identification Summary: 0.5 FU_1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.516(Pass)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.657(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.844(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.181(Pass)

Peak Review: 0.5 FU_1

Peak Review: 0.5 FU_1



Sample Summary

Quantitative Analytes Report

Sample Name	0.5 FU_2
Acquisition Date/Time	9/20/2022 7:42:50 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK LOD
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	45
Sample Comment	

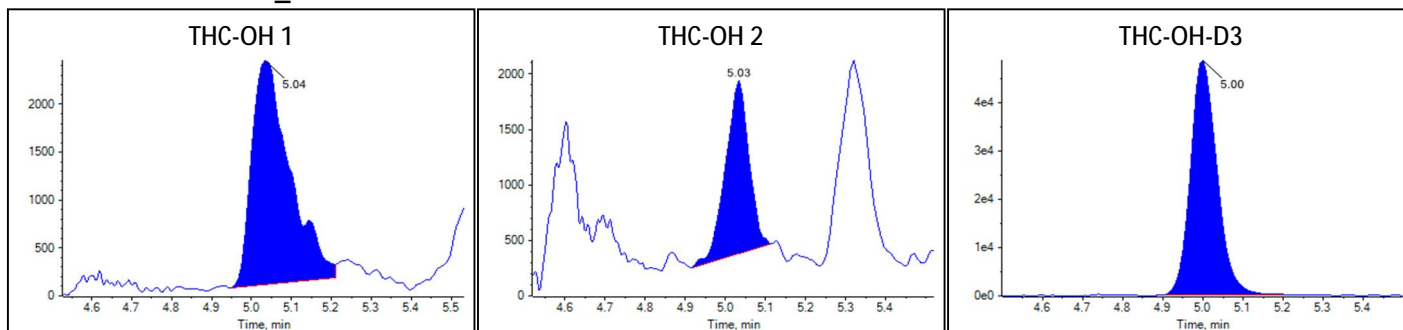
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	6.979e-2	0.480		
Δ9-THC	1.150e-2	0.486		
Δ8-THC	7.810e-3	0.546		
THC-COOH	2.229e-1	1.304		

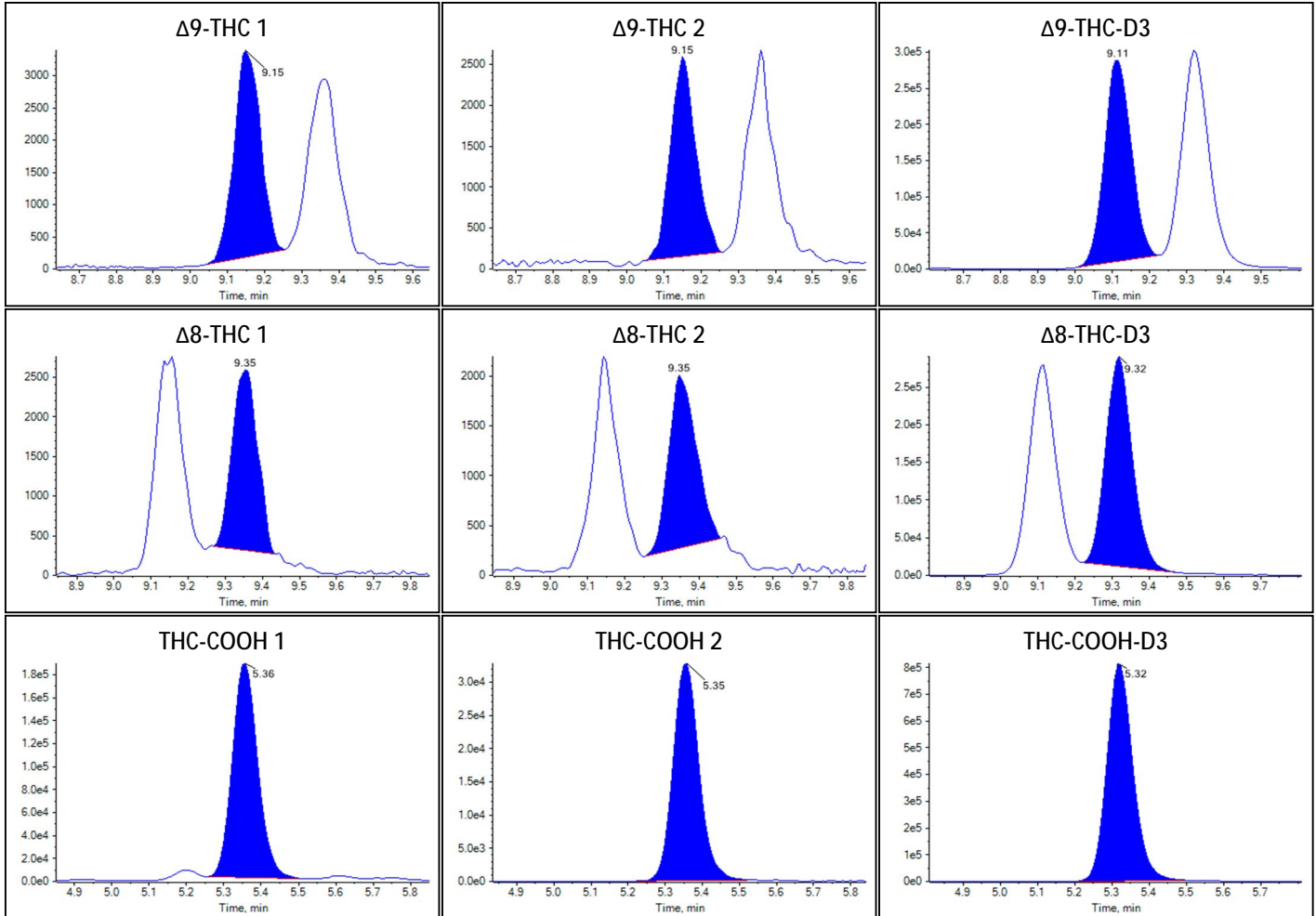
Identification Summary: 0.5 FU_2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.406(Fail)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.729(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.829(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.180(Pass)

Peak Review: 0.5 FU_2



Peak Review: 0.5 FU_2



Sample Summary

Sample Name	0.4 FR_1
Acquisition Date/Time	9/20/2022 7:56:56 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK LOD
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	46
Sample Comment	

Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	5.078e-2	0.314		
Δ9-THC	8.909e-3	0.394		
Δ8-THC	6.840e-3	0.503		

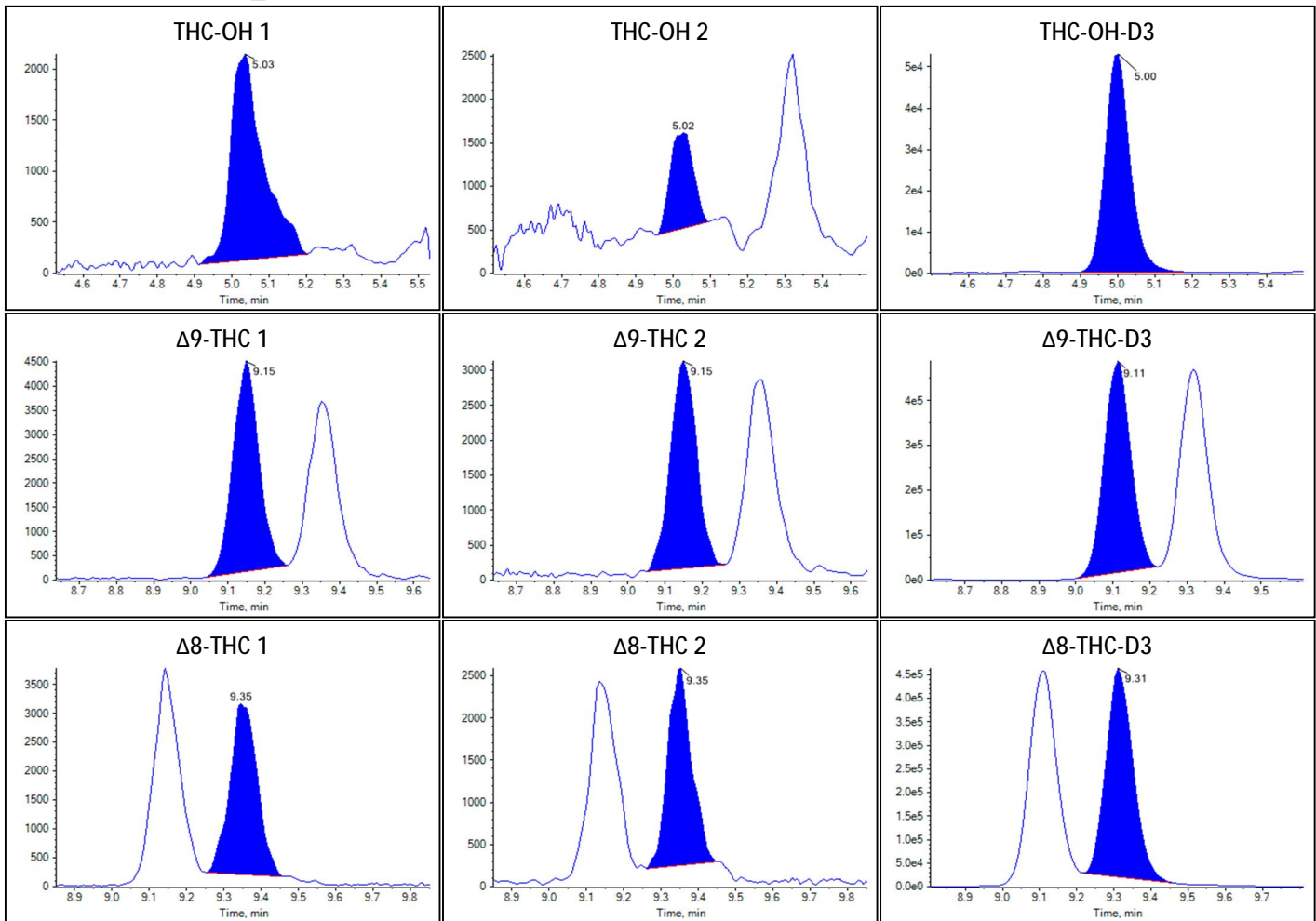
Quantitative Analytes Report

THC-COOH	1.697e-1	0.756	
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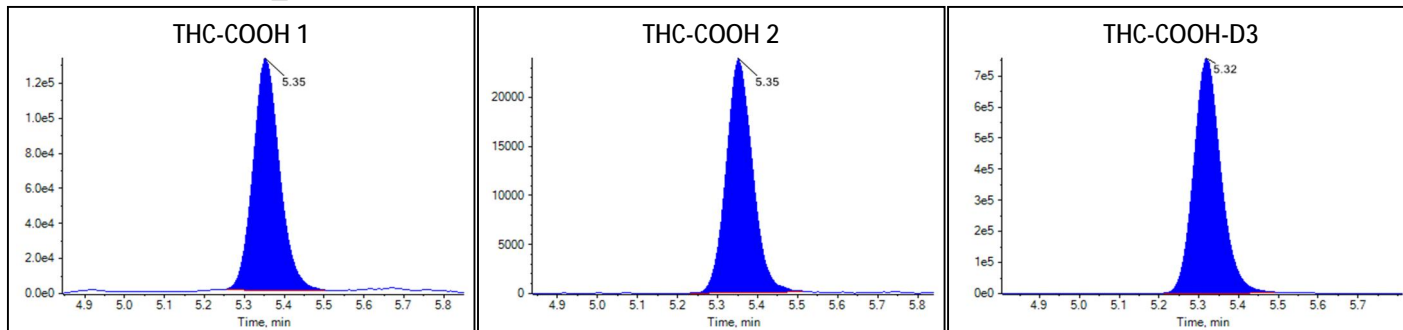
Identification Summary: 0.4 FR_1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.000(Pass)	0.386(Fail)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.696(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.680(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.179(Pass)

Peak Review: 0.4 FR_1



Peak Review: 0.4 FR_1



Sample Summary

Sample Name	0.4 FR_2
Acquisition Date/Time	9/20/2022 8:11:01 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK LOD
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	47
Sample Comment	

Quantitative Summary

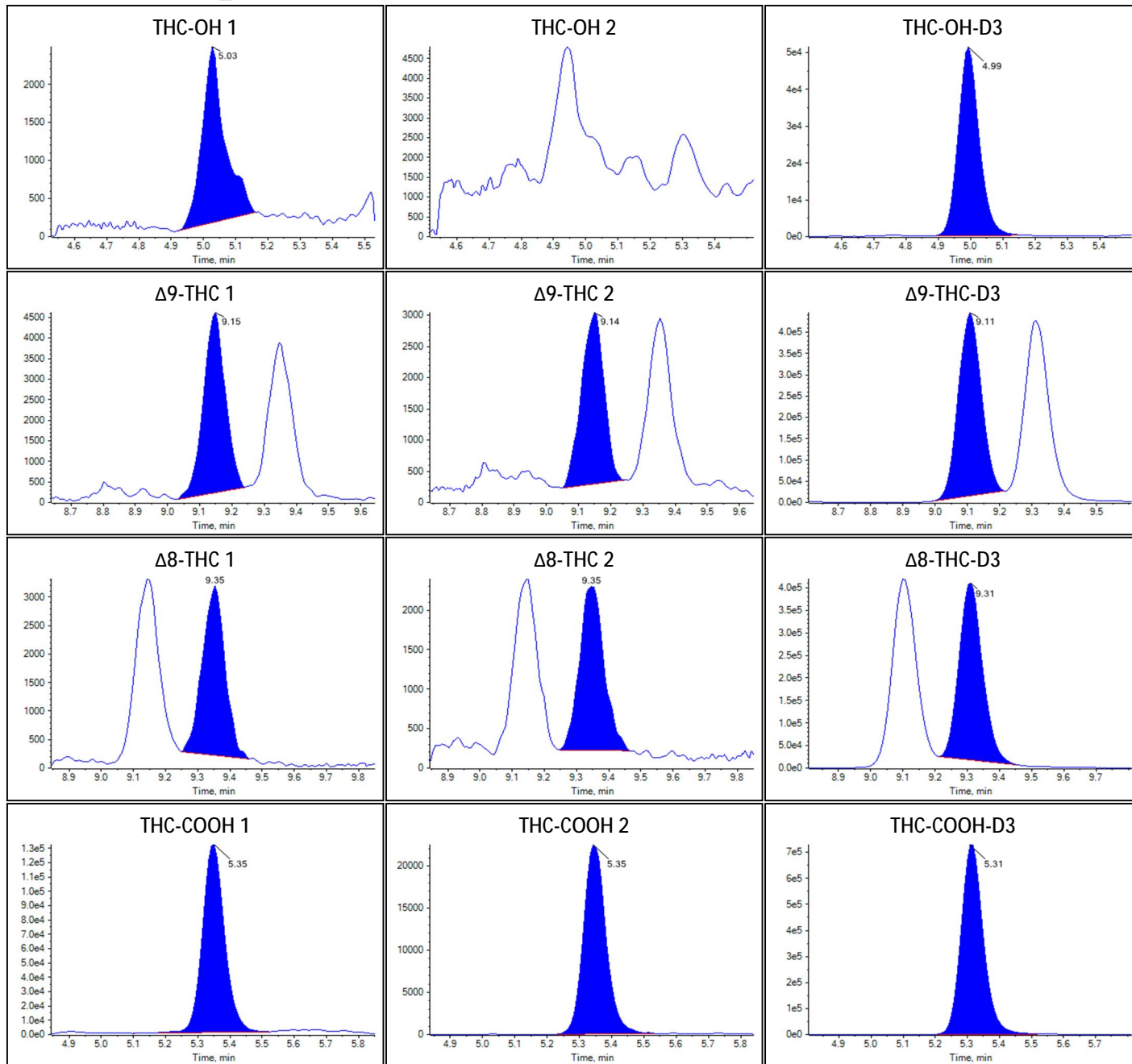
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	4.935e-2	0.302		
Δ 9-THC	9.701e-3	0.422		
Δ 8-THC	7.299e-3	0.523		
THC-COOH	1.794e-1	0.856		

Identification Summary: 0.4 FR_2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.650(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.763(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.174(Pass)

Peak Review: 0.4 FR_2

Peak Review: 0.4 FR_2



Sample Summary

Quantitative Analytes Report

Sample Name	0.4 FT_1
Acquisition Date/Time	9/20/2022 8:25:07 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK LOD
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	48
Sample Comment	

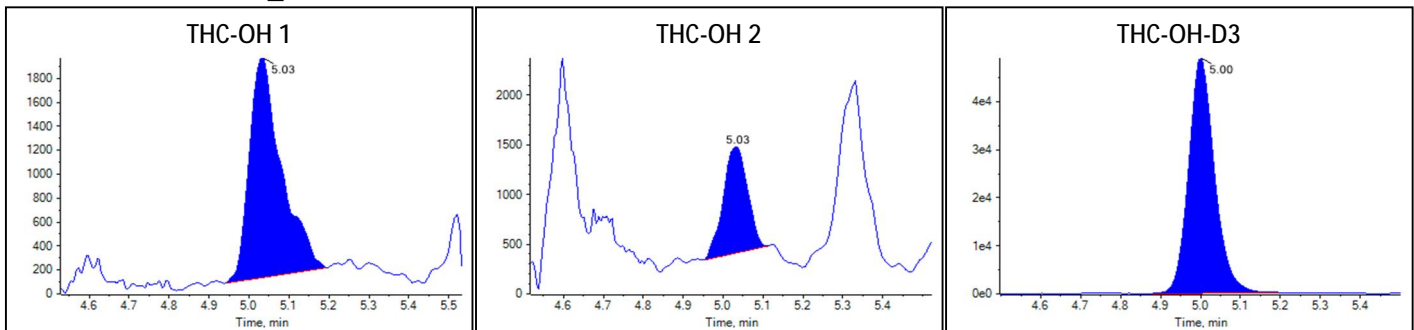
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	4.633e-2	0.275		
Δ9-THC	8.765e-3	0.389		
Δ8-THC	7.333e-3	0.525		
THC-COOH	1.685e-1	0.744		

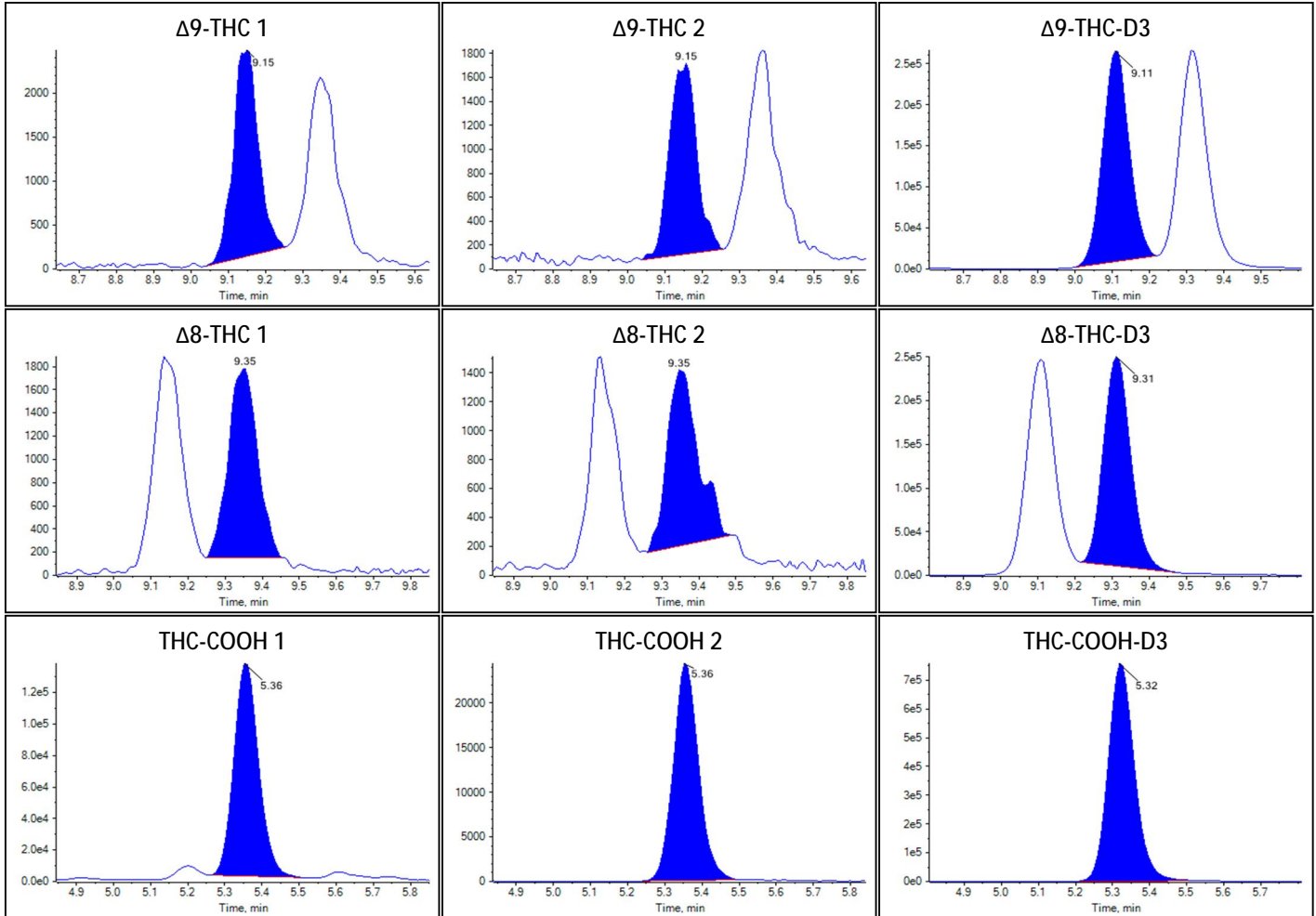
Identification Summary: 0.4 FT_1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.442(Fail)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.736(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.795(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.183(Pass)

Peak Review: 0.4 FT_1



Peak Review: 0.4 FT_1



Sample Summary

Sample Name	0.4 FT_2
Acquisition Date/Time	9/20/2022 8:39:12 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK LOD
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	49
Sample Comment	

Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	4.950e-2	0.303		
Δ9-THC	8.922e-3	0.394		
Δ8-THC	7.511e-3	0.533		

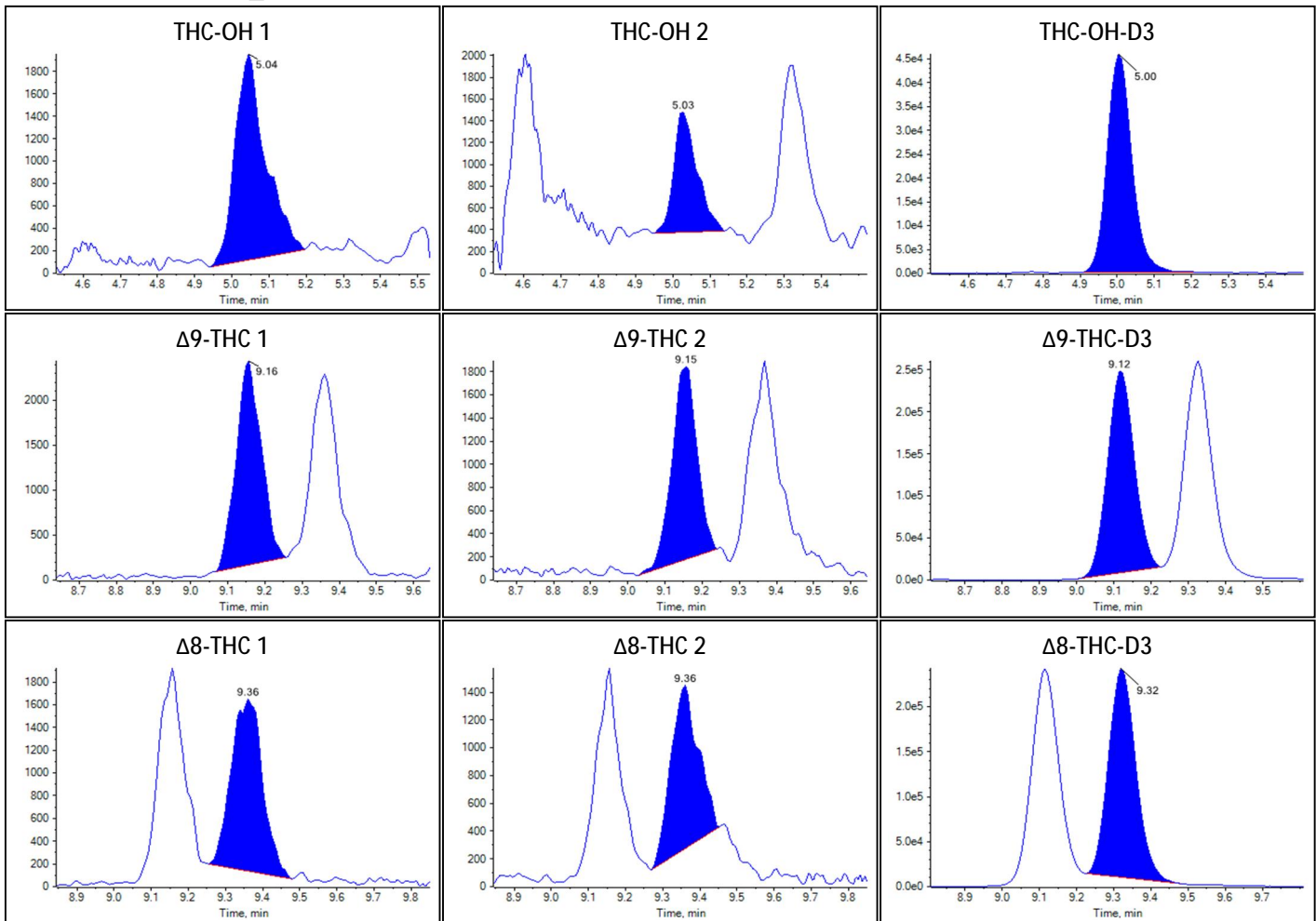
Quantitative Analytes Report

THC-COOH	1.749e-1	0.810	
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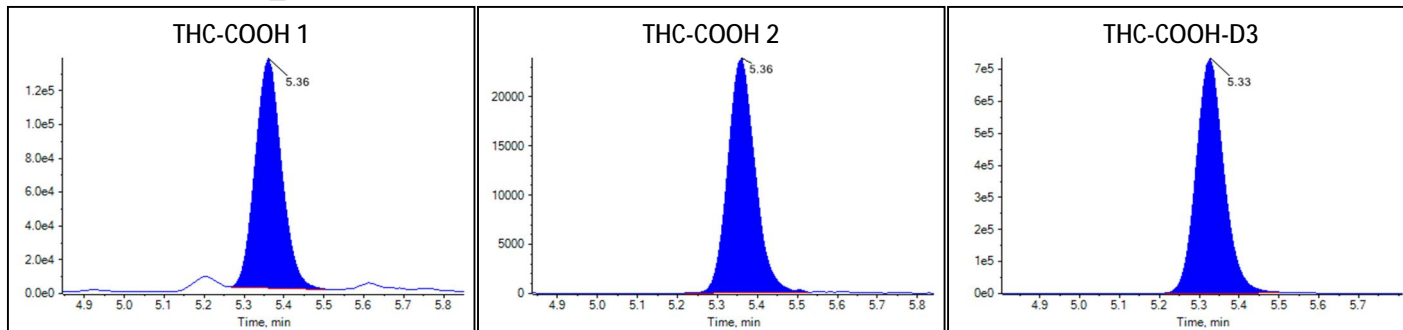
Identification Summary: 0.4 FT_2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.460(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.734(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.683(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.182(Pass)

Peak Review: 0.4 FT_2



Peak Review: 0.4 FT_2



Sample Summary

Sample Name	0.4 FU_1
Acquisition Date/Time	9/20/2022 8:53:17 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK LOD
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	50
Sample Comment	

Quantitative Summary

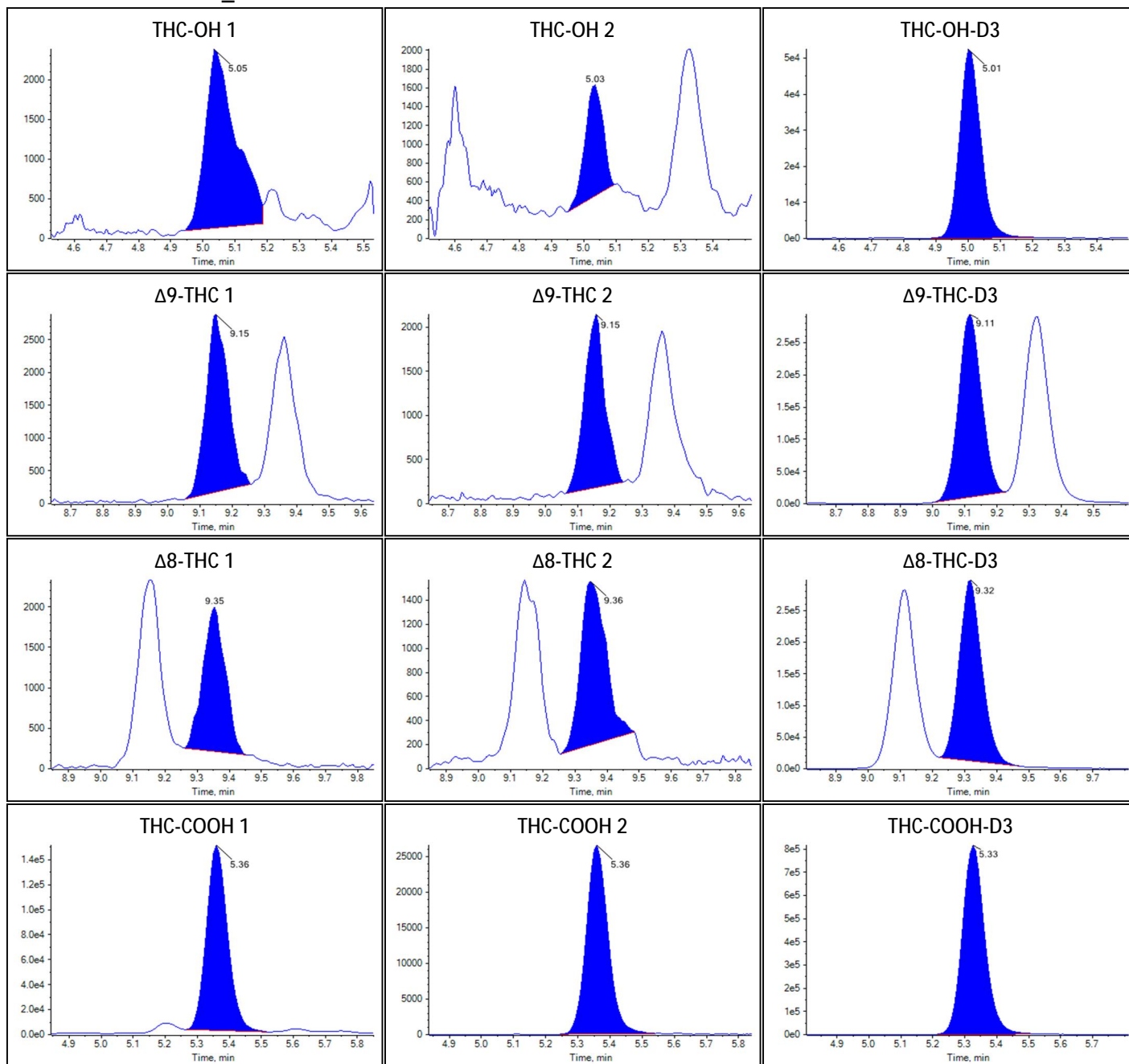
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	6.216e-2	0.414		
Δ 9-THC	9.239e-3	0.406		
Δ 8-THC	6.164e-3	0.474		
THC-COOH	1.706e-1	0.765		

Identification Summary: 0.4 FU_1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.309(Fail)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.669(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.860(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.184(Pass)

Peak Review: 0.4 FU_1

Peak Review: 0.4 FU_1



Sample Summary

Quantitative Analytes Report

Sample Name	0.4 FU_2
Acquisition Date/Time	9/20/2022 9:07:23 PM
Acquisition Method	THC.dam
Batch Name	20220920 SK LOD and Carryover.dab
Results Table	20220920SK LOD
Sample Type	Unknown
File Name	20220920 SK.wiff
Position	51
Sample Comment	

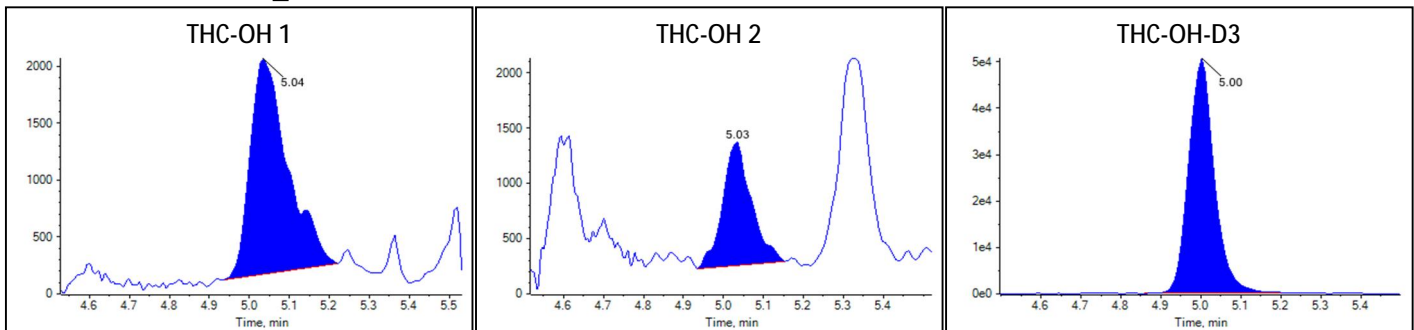
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	5.514e-2	0.352		
Δ9-THC	9.721e-3	0.423		
Δ8-THC	6.975e-3	0.509		
THC-COOH	1.740e-1	0.800		

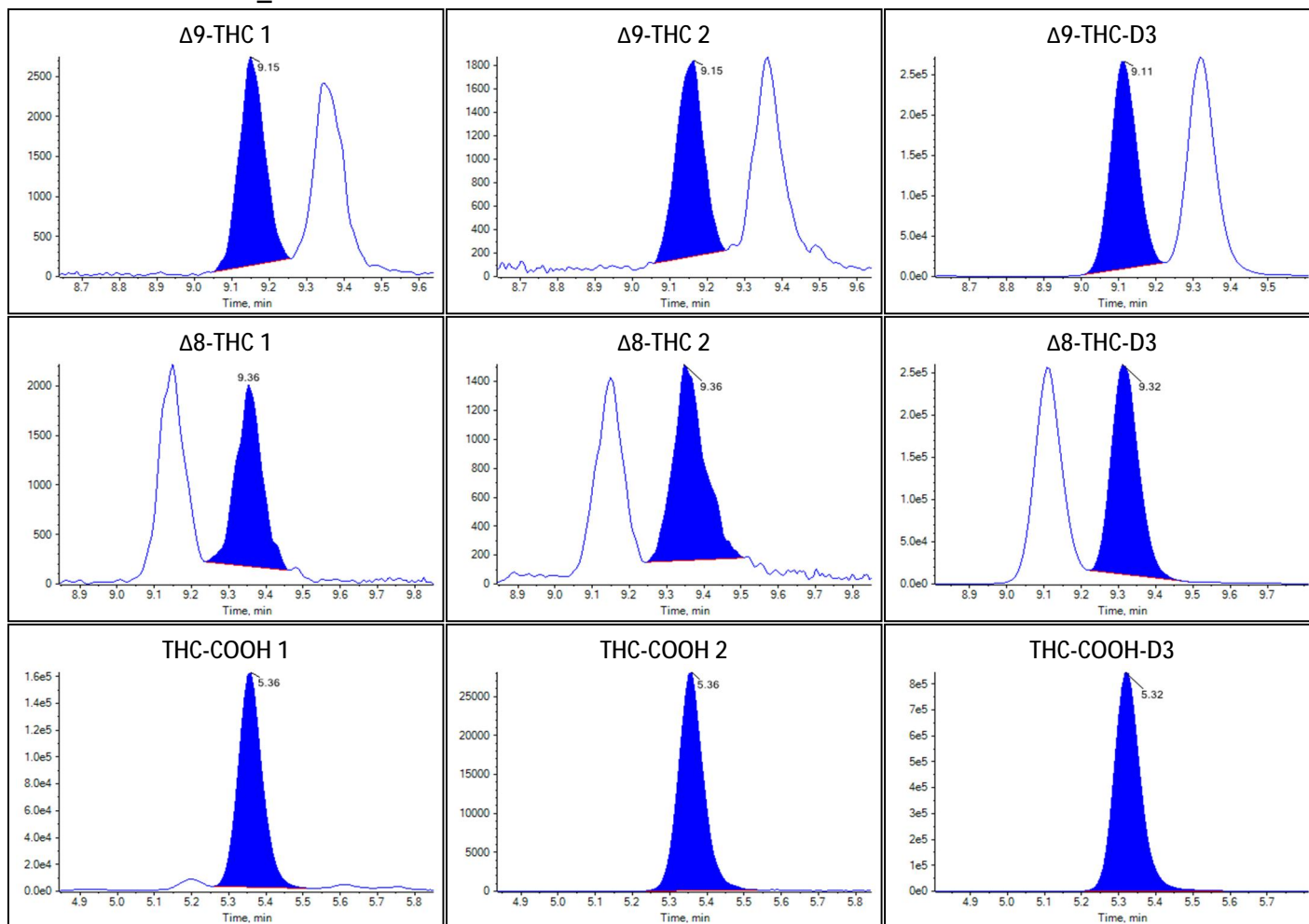
Identification Summary: 0.4 FU_2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.451(Fail)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.689(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.897(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.182(Pass)

Peak Review: 0.4 FU_2



Peak Review: 0.4 FU_2



LOD Batch 1 – 20220919TSF

	Batch Negative - FW	Signal x 3.3
Δ9-THC 1	200	660
Δ9-THC 2	200	660
Δ8-THC 1	200	660
Δ8-THC 2	250	825
THC-COOH 1	2000	6600
THC-COOH 2	100	330

	FW		FX		GA	
	Δ9-THC 1	Δ9-THC 2	Δ9-THC 1	Δ9-THC 2	Δ9-THC 1	Δ9-THC 2
	8076	4818	3756	2465	3792	2525
	7772	5237	3518	2628	3090	2207
Mean	7924	5028	3637	2547	3441	2366

	FW		FX		GA	
	Δ8-THC 1	Δ8-THC 2	Δ8-THC 1	Δ8-THC 2	Δ8-THC 1	Δ8-THC 2
	5319	4135	3256	2106	2677	1954
	5027	3990	2714	1925	2365	1833
Mean	5173	4063	2985	2015	2521	1893

	FW		FX		GA	
	THC-COOH 1	THC-COOH 2	THC-COOH 1	THC-COOH 2	THC-COOH 1	THC-COOH 2
	180935	31256	184089	32556	187300	34238
	180586	32681	185281	34061	154951	28547
Mean	180761	31969	184685	33309	171125	31393

LOD Batch 2 – 20220919JLG

	Batch Negative - GB	Signal x 3.3
Δ9-THC 1	200	660
Δ9-THC 2	200	660
Δ8-THC 1	200	660
Δ8-THC 2	250	825
THC-COOH 1	2500	8250
THC-COOH 2	100	330

	GB		GD		GE	
	Δ9-THC 1	Δ9-THC 2	Δ9-THC 1	Δ9-THC 2	Δ9-THC 1	Δ9-THC 2
	7428	4964	7224	5062	7511	5121
	7814	5156	5594	4109	6345	4415
Mean	7621	5060	6409	4585	6928	4768

	GB		GD		GE	
	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2
	5217	4078	5121	4065	4804	3862
	5435	4131	4074	2916	4852	3239
Mean	5326	4104	4597	3491	4828	3550

	GB		GD		GE	
	THC-COOH 1	THC-COOH 2	THC-COOH 1	THC-COOH 2	THC-COOH 1	THC-COOH 2
	171562	29571	194570	34352	193540	35187
	180951	32039	146698	25389	184638	31620
Mean	176256	30805	170634	29870	189089	33404

LOD Batch 3 – 20220920SK

	Batch Negative - FR	Signal x 3.3
$\Delta 9$ -THC 1	200	660
$\Delta 9$ -THC 2	200	660
$\Delta 8$ -THC 1	200	660
$\Delta 8$ -THC 2	200	660
THC-COOH 1	2000	6600
THC-COOH 2	100	330

	FR		FT		FU	
	$\Delta 9$ -THC 1	$\Delta 9$ -THC 2	$\Delta 9$ -THC 1	$\Delta 9$ -THC 2	$\Delta 9$ -THC 1	$\Delta 9$ -THC 2
	5185	3466	3237	2254	3230	2214
	5258	3549	3119	2162	3207	2434
Mean	5222	3507	3178	2208	3218	2324

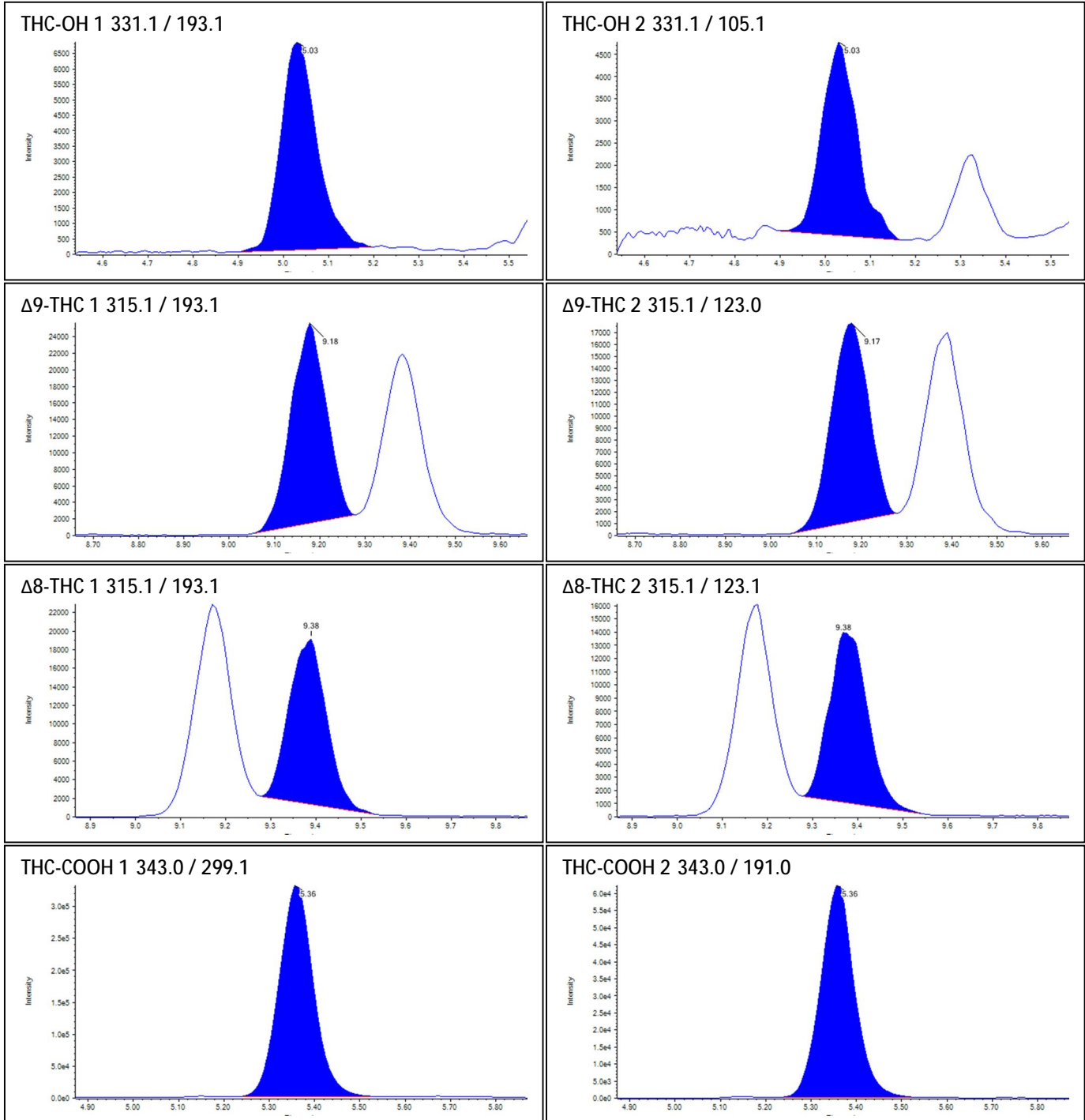
	FR		FT		FU	
	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2
	3815	3048	2253	1640	2560	1752
	3655	2784	2177	1662	2276	1740
Mean	3735	2916	2215	1651	2418	1746

	FR		FT		FU	
	THC-COOH 1	THC-COOH 2	THC-COOH 1	THC-COOH 2	THC-COOH 1	THC-COOH 2
	171028	30139	184808	32543	186610	33359
	181740	31944	182494	32490	186266	32691
Mean	176384	31041	183651	32517	186438	33025

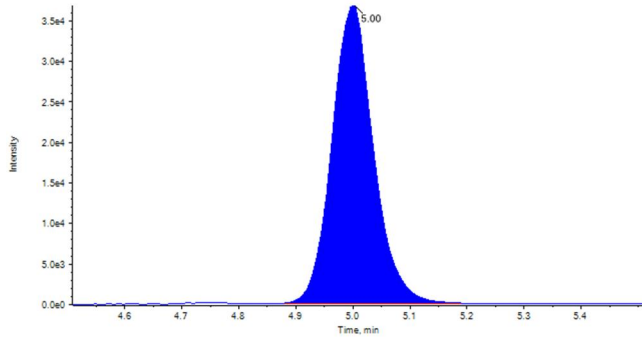
STABILITY

Cannabinoid Lot Log	
Date	9-14-22
Analyst	LA
Checked tubes	
Sample preparation	
Sample Pipette	7
Blank Blood	FR3
Standards	9-14-22 JLG
Controls	9-14-22 JLG
Standards/Controls Pipette	64
Internal Standard	9-14-22 SB
Internal Standard Pipette	103
0.1 % formic acid in H ₂ O	8-29-22 SB
Extraction	
SLE Cartridge	820-2-06
MTBE	L322A-2
B: 0.1% formic acid in ACN	8-29-22 SB
A: 0.1 % formic acid in H ₂ O	8-15-22 JA
Instrumentation	
A: 0.1 % formic acid in H ₂ O	9-1-22 HK
B: 0.1% formic acid in ACN	9-12-22 SB
Column Serial Number	USL6617438
Instrument	21-1
Sequence Check:	
Notes: STABILITY	

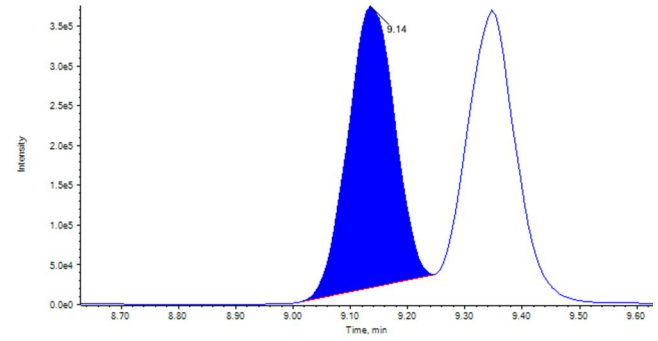
Sample Name: L1



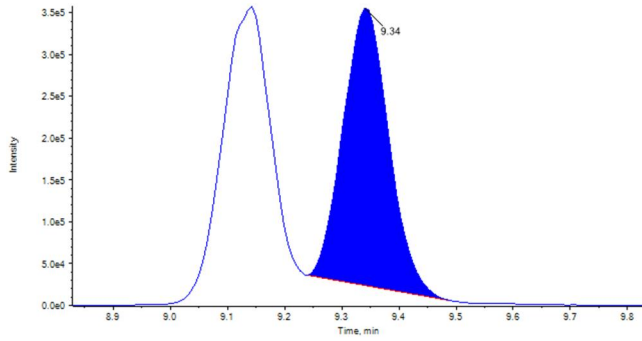
THC-OH-D3 334.1 / 196.1



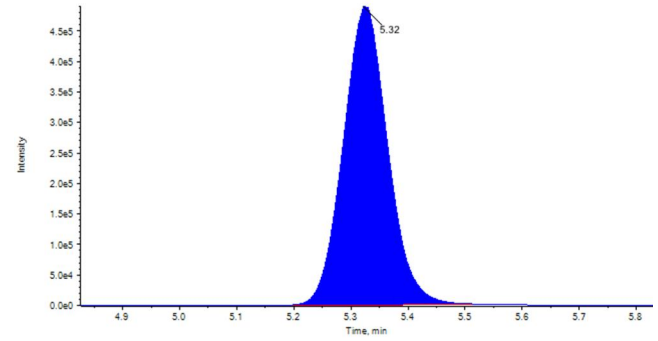
Δ 9-THC-D3 318.1 / 123.0



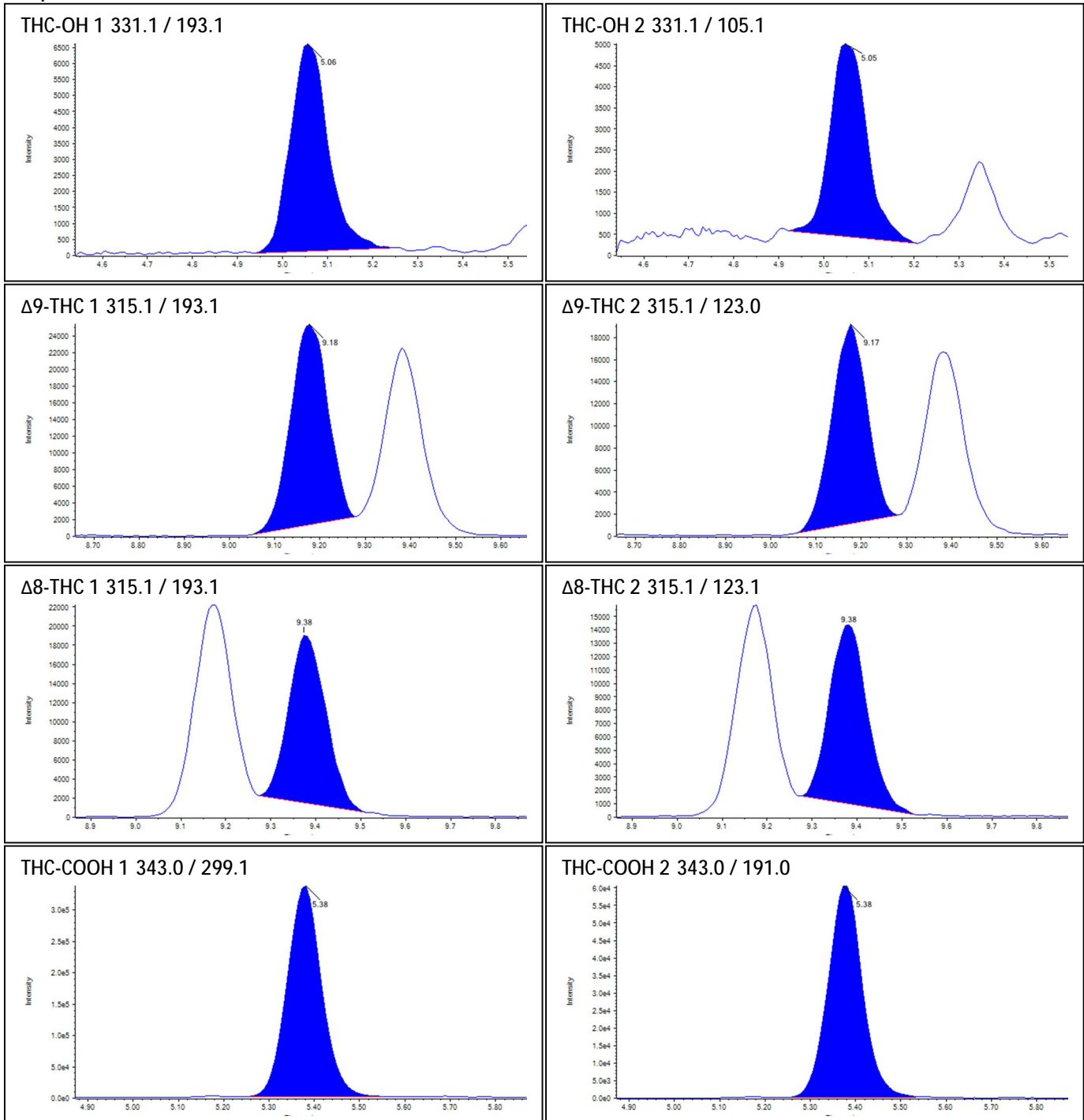
Δ 8-THC-D3 318.1 / 123.0

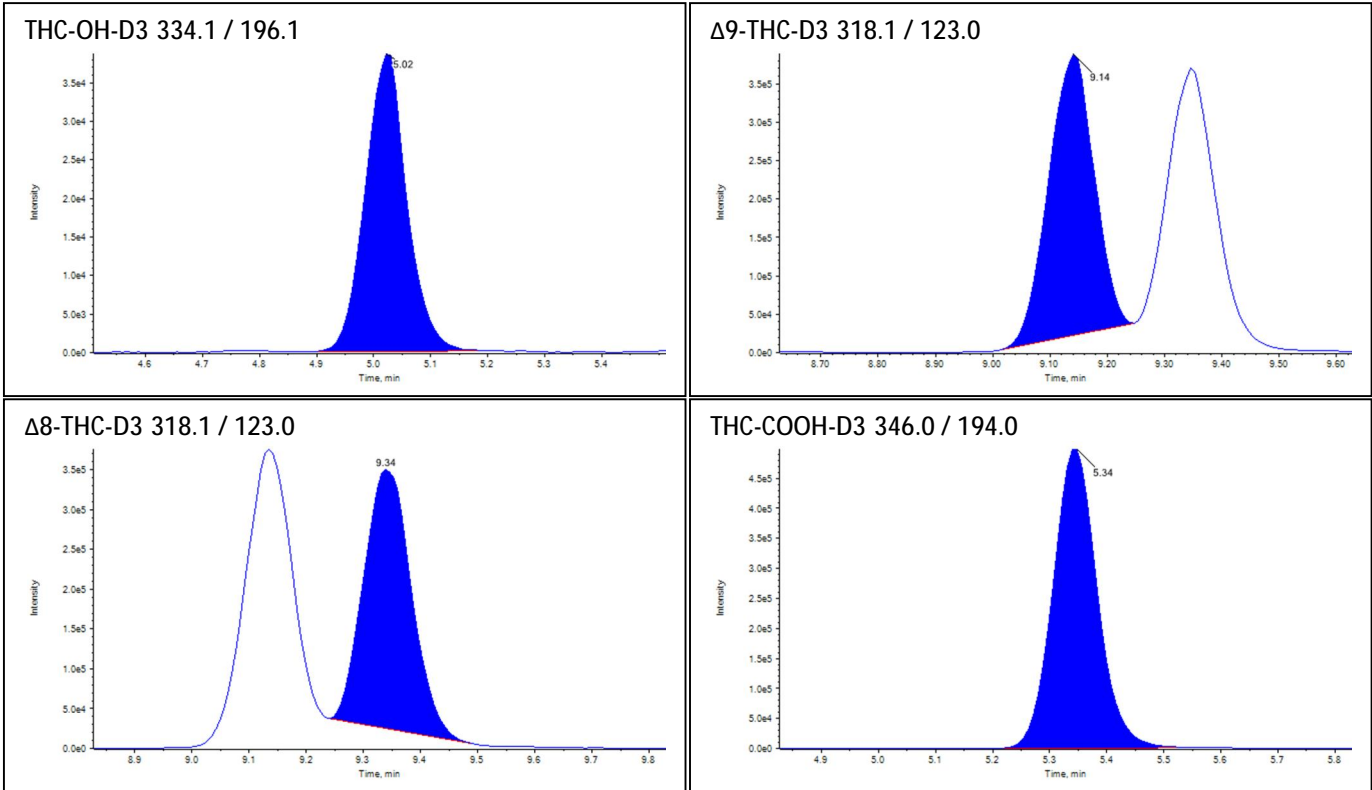


THC-COOH-D3 346.0 / 194.0

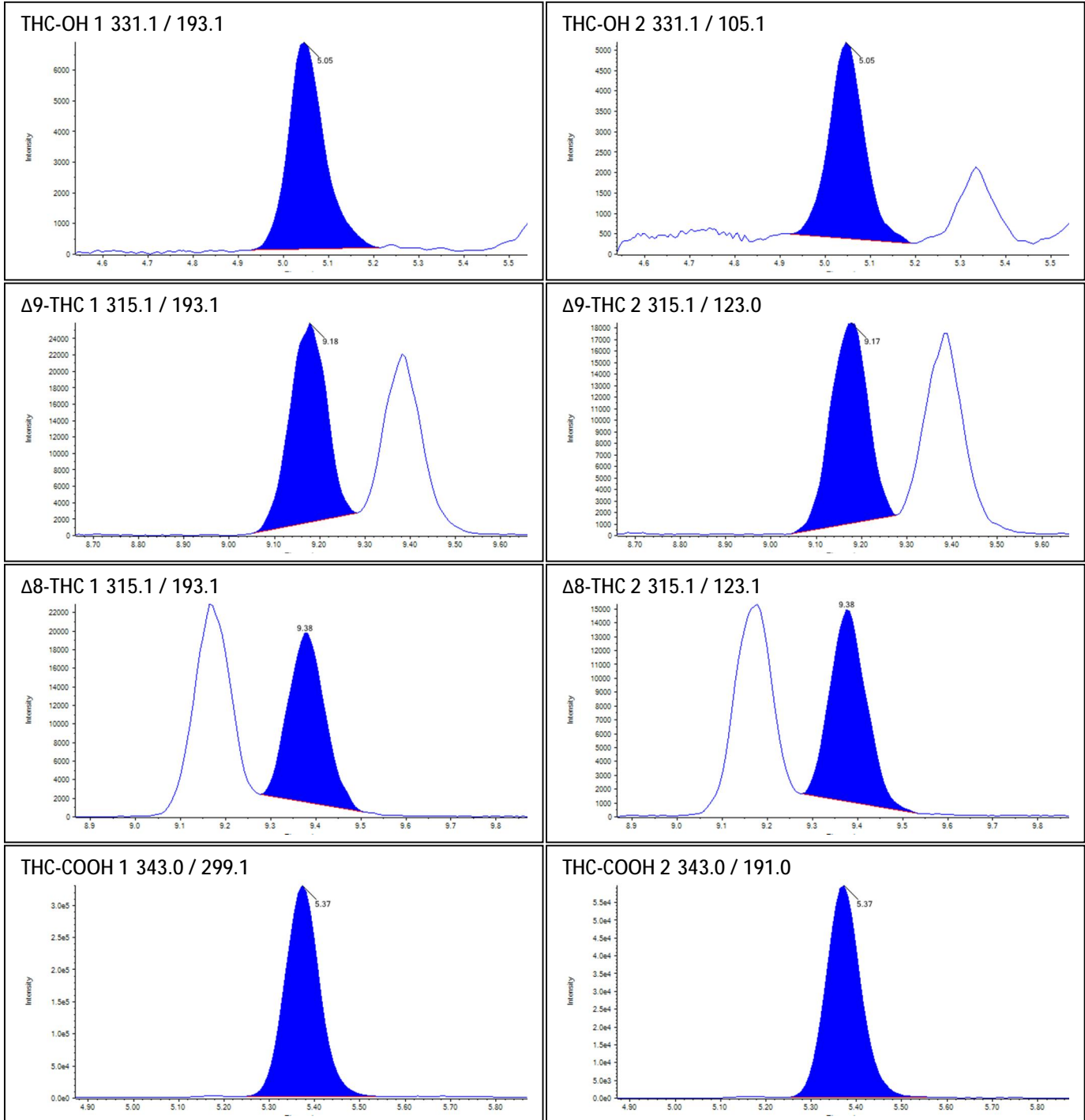


Sample Name: L2

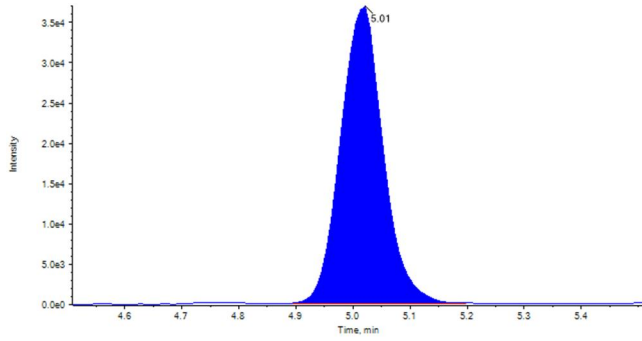




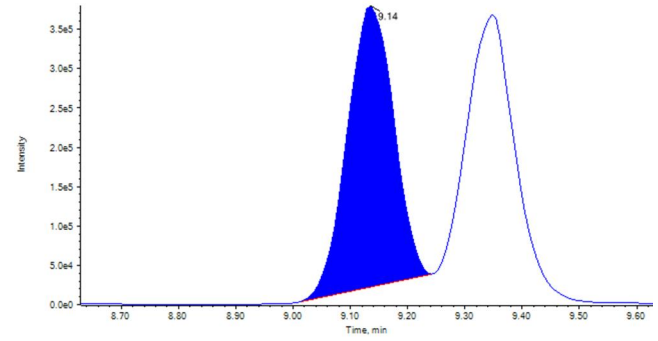
Sample Name: L3



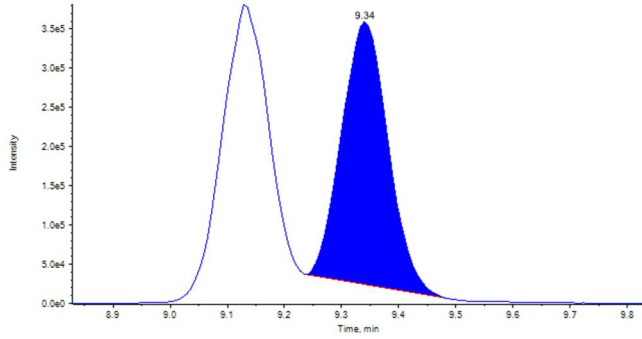
THC-OH-D3 334.1 / 196.1



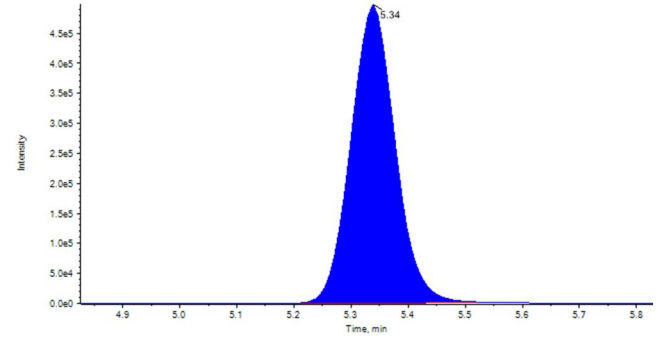
Δ 9-THC-D3 318.1 / 123.0



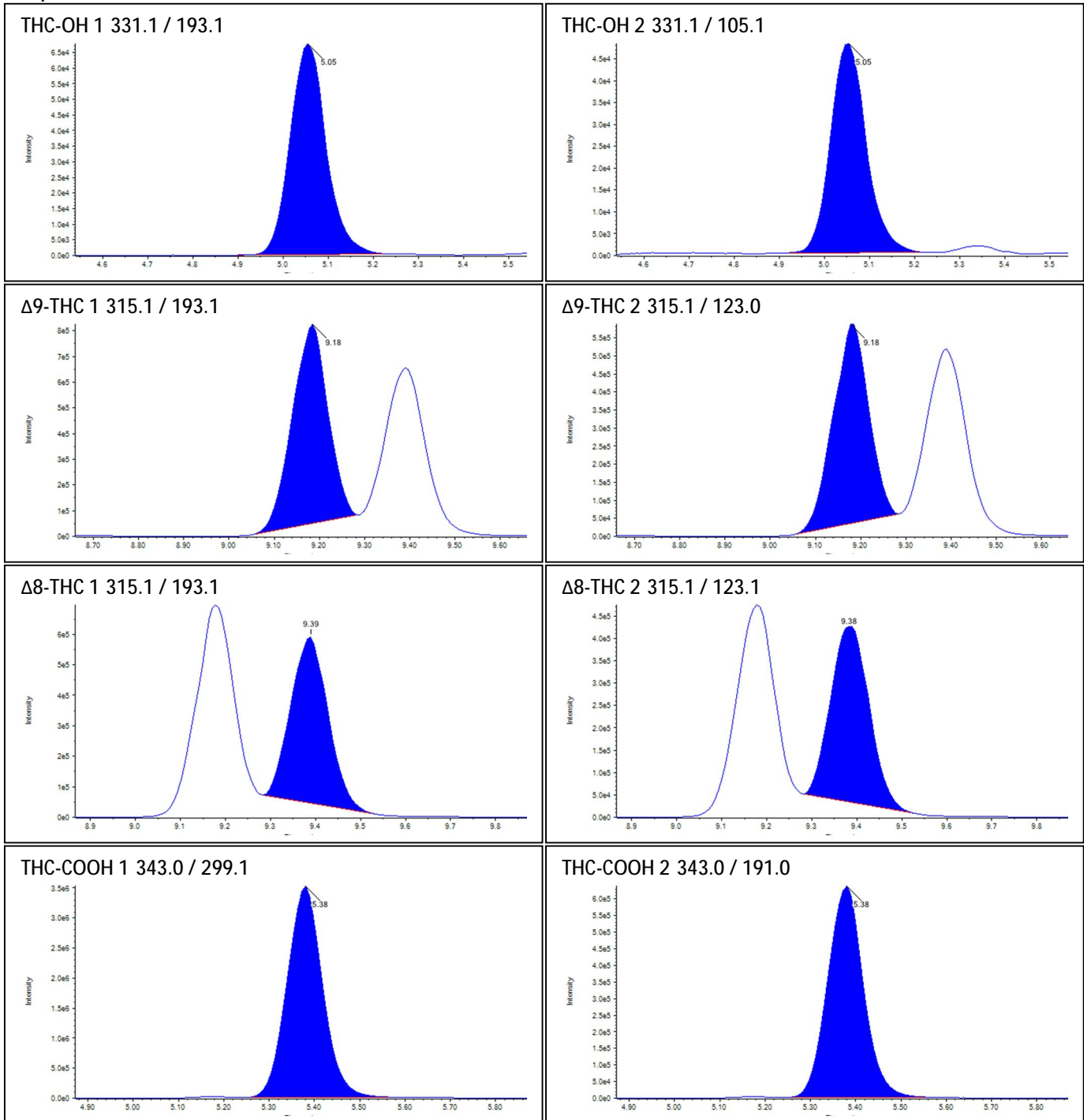
Δ 8-THC-D3 318.1 / 123.0

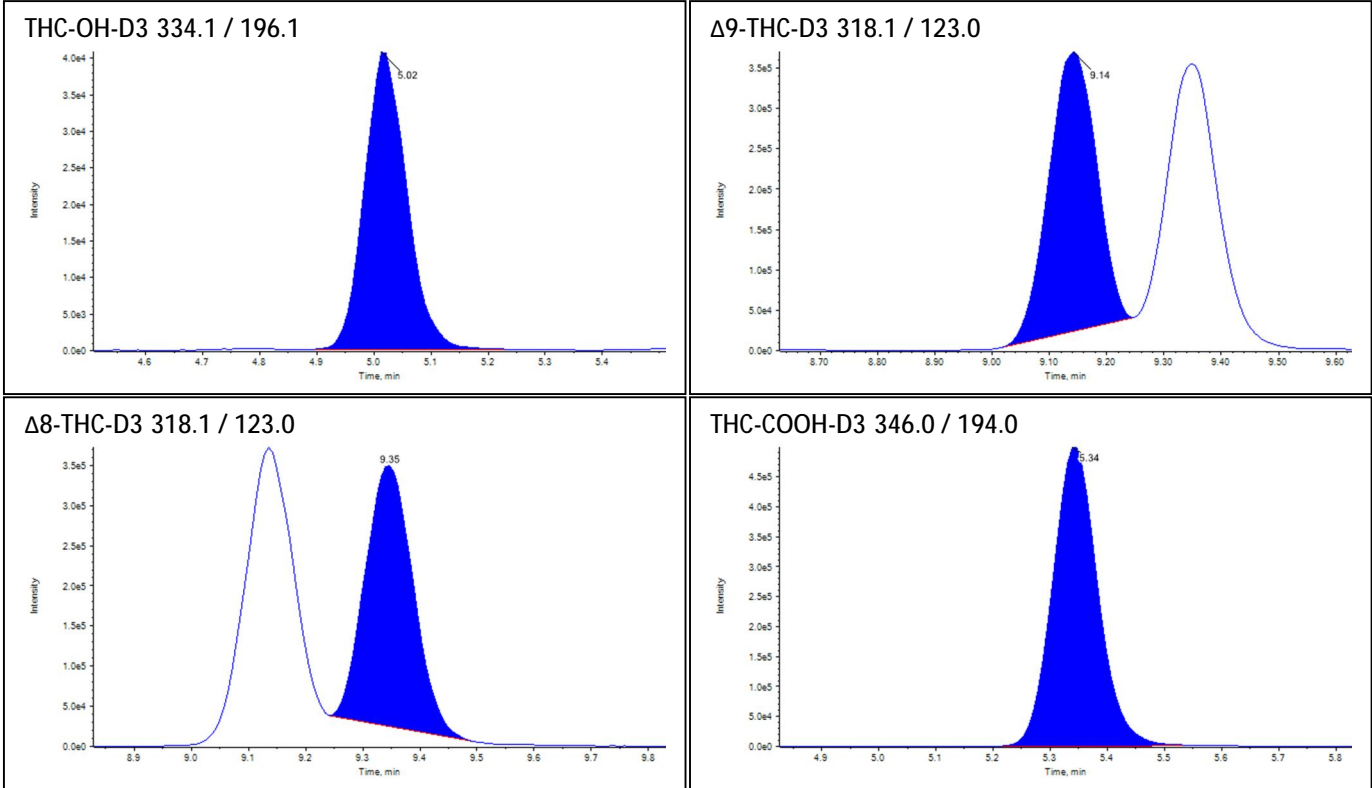


THC-COOH-D3 346.0 / 194.0

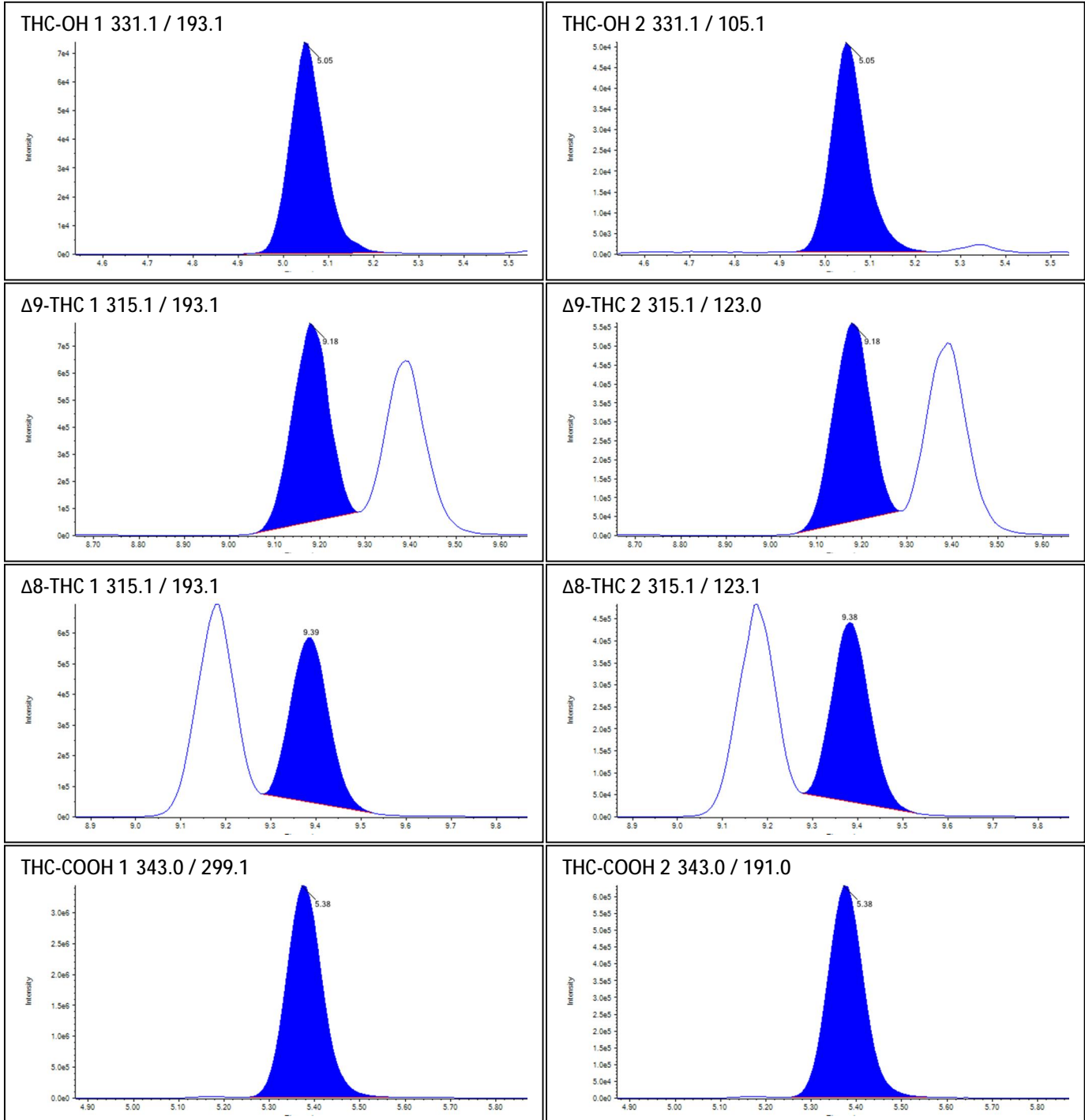


Sample Name: H1

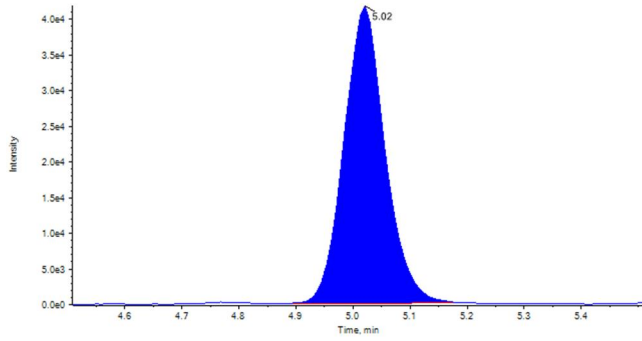




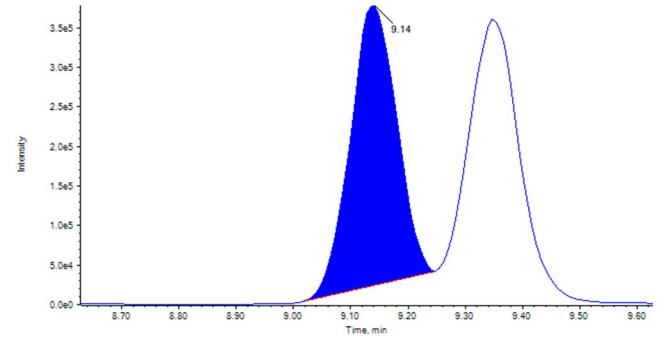
Sample Name: H2



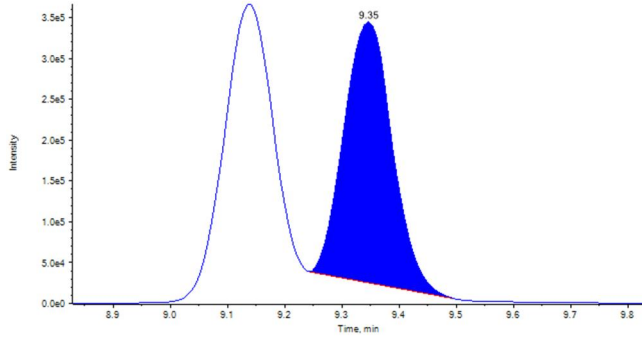
THC-OH-D3 334.1 / 196.1



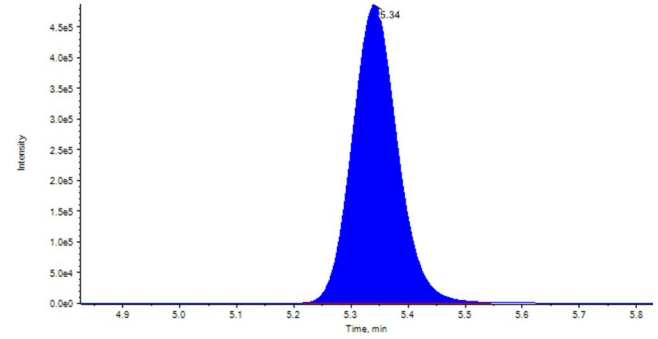
Δ 9-THC-D3 318.1 / 123.0



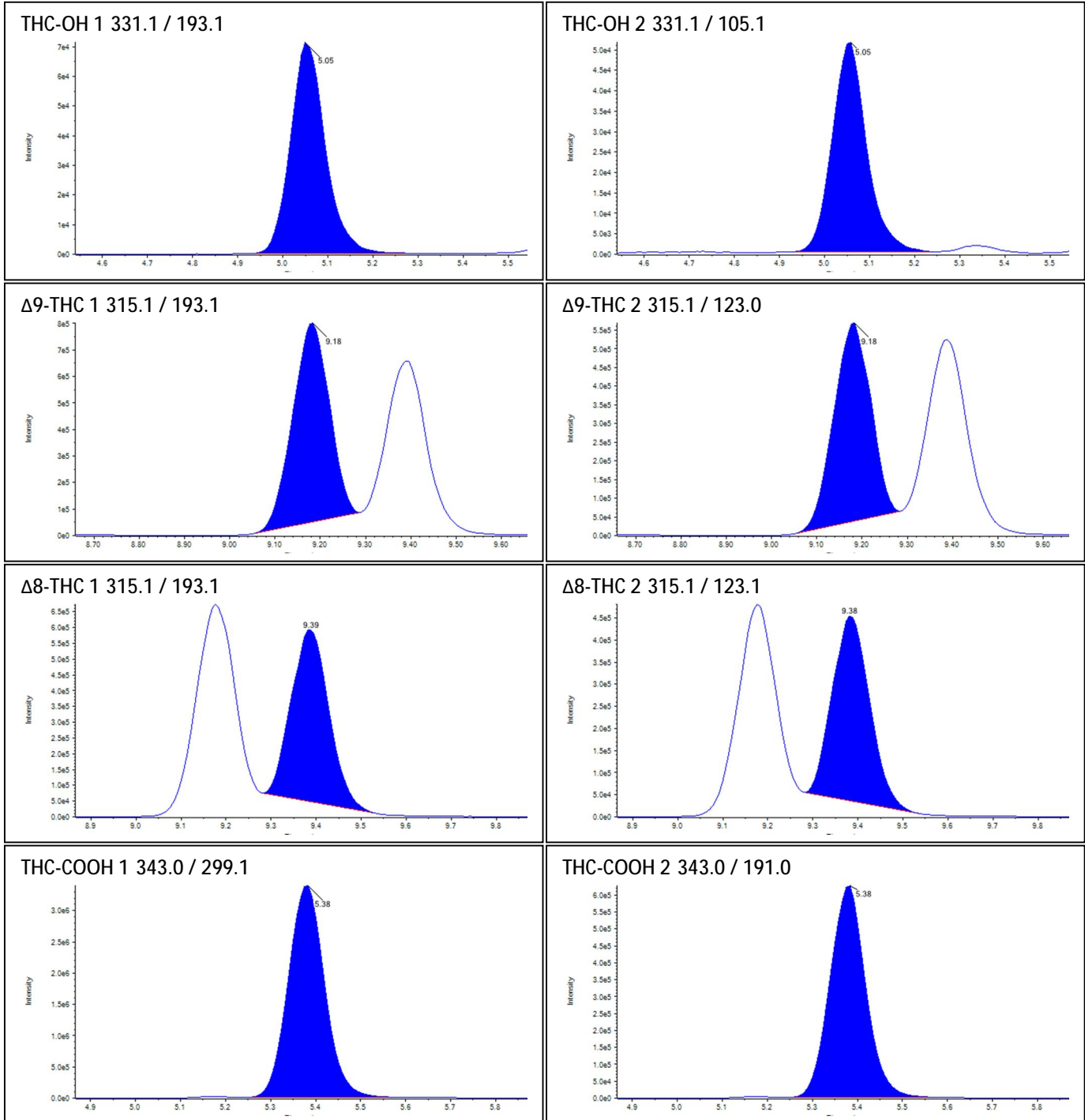
Δ 8-THC-D3 318.1 / 123.0



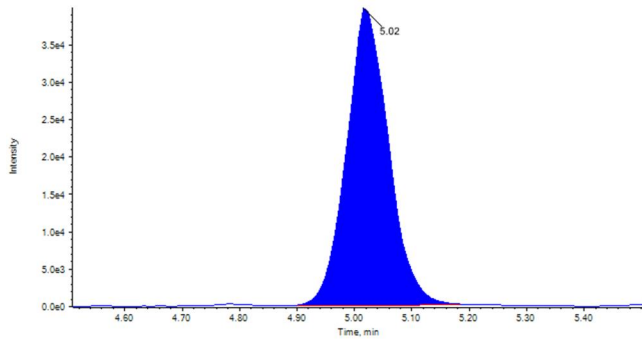
THC-COOH-D3 346.0 / 194.0



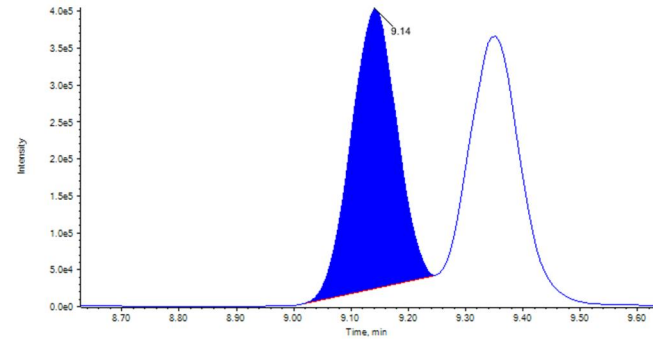
Sample Name: H3



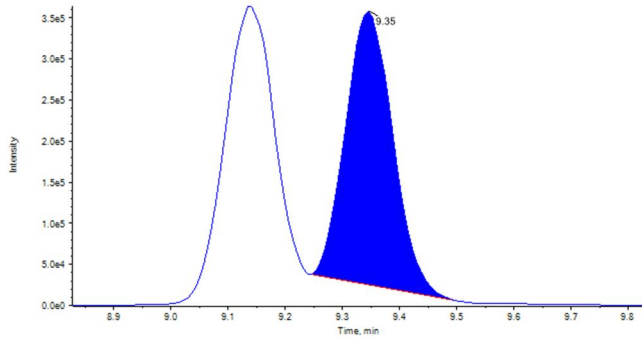
THC-OH-D3 334.1 / 196.1



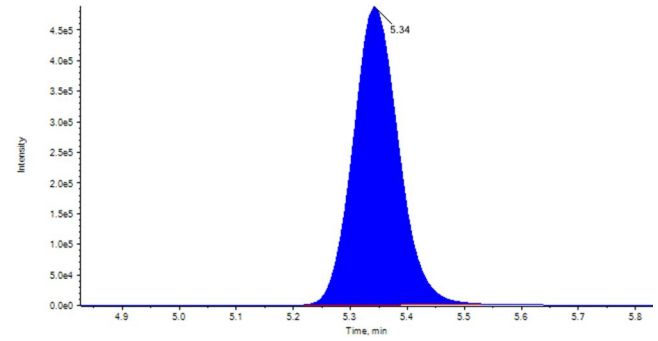
Δ 9-THC-D3 318.1 / 123.0



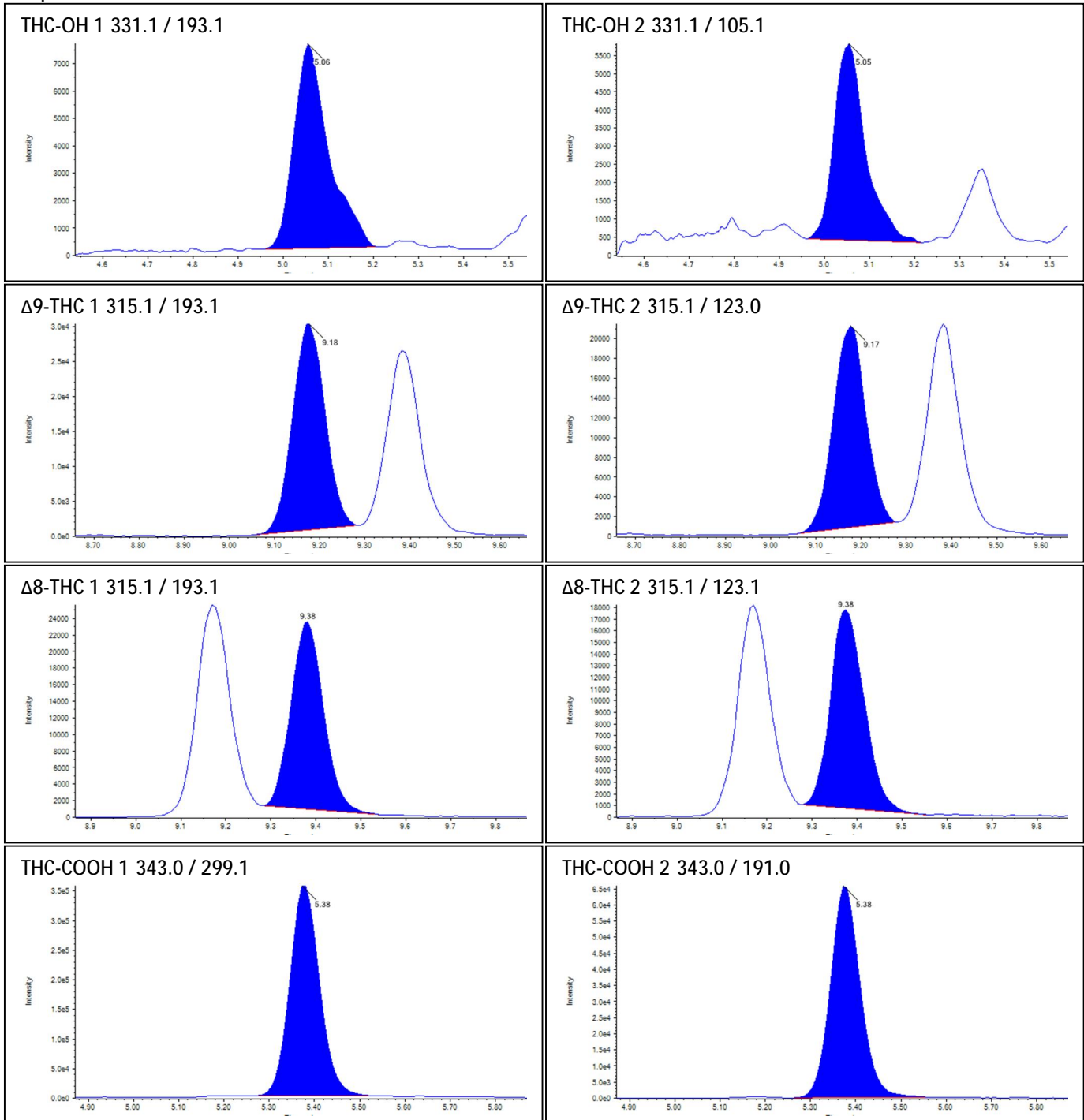
Δ 8-THC-D3 318.1 / 123.0



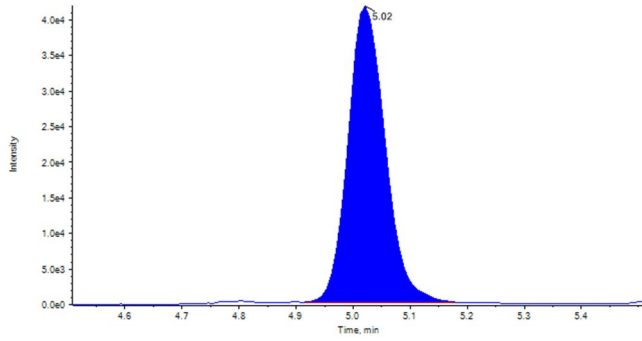
THC-COOH-D3 346.0 / 194.0



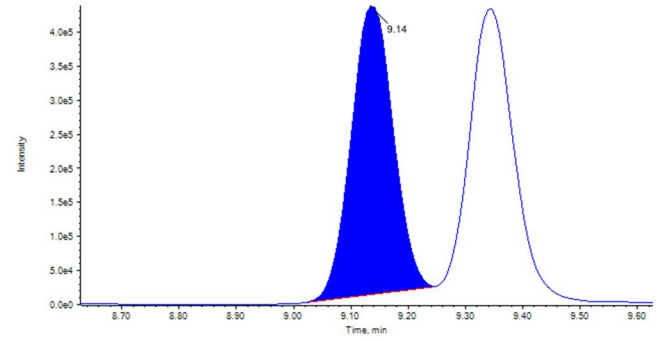
Sample Name: L1



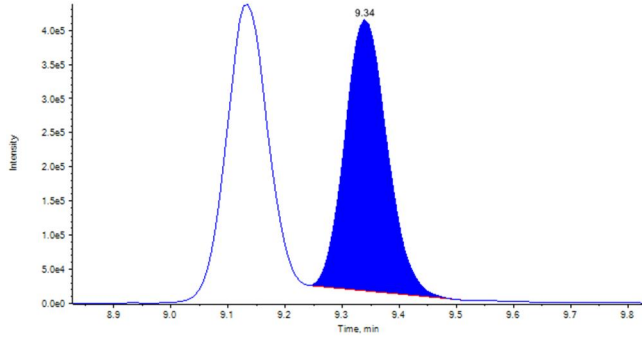
THC-OH-D3 334.1 / 196.1



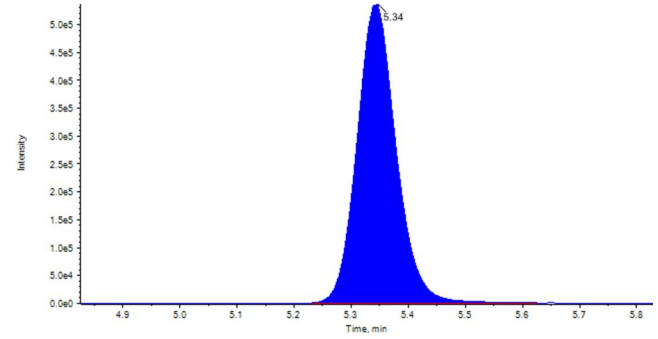
Δ 9-THC-D3 318.1 / 123.0



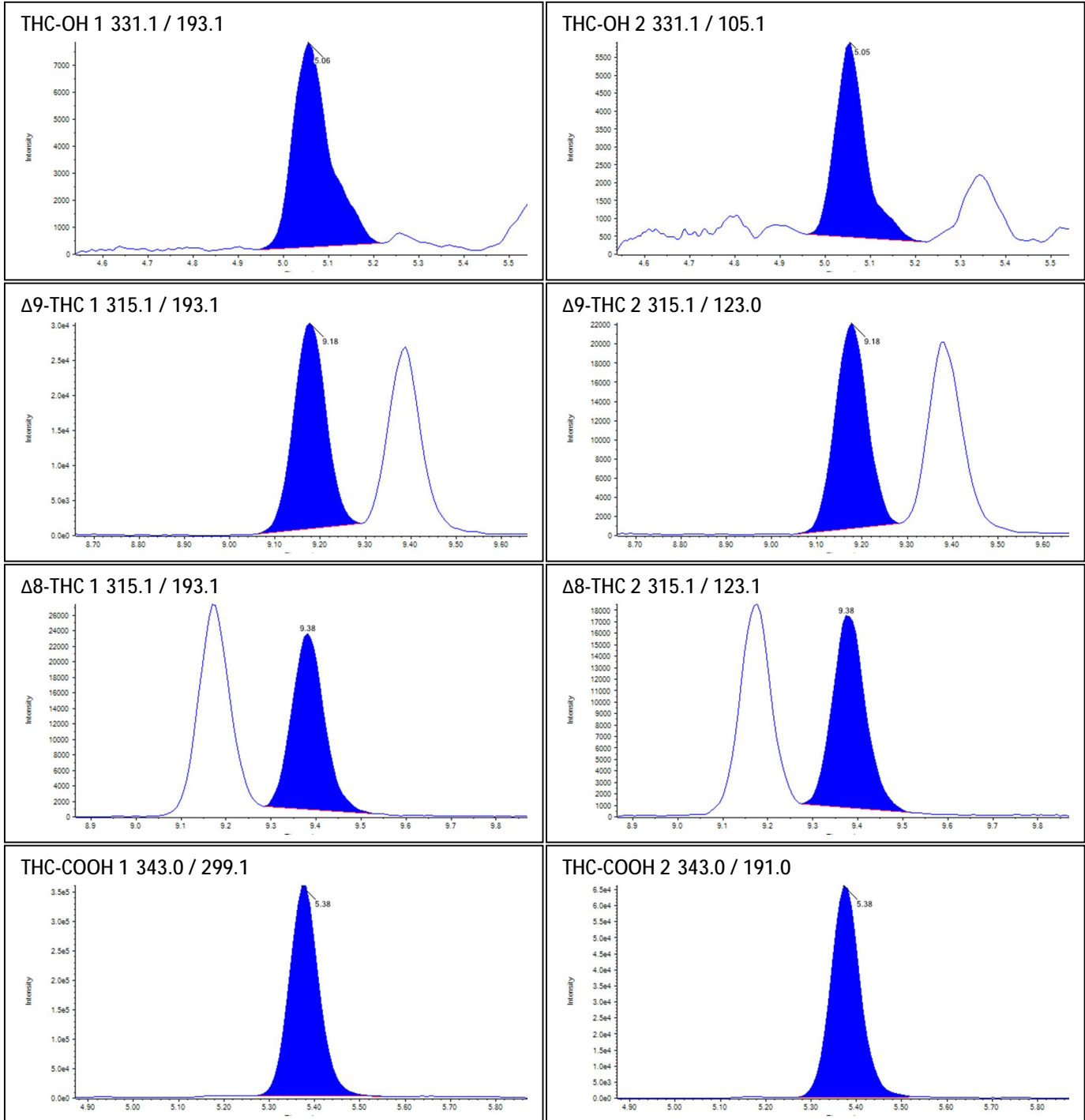
Δ 8-THC-D3 318.1 / 123.0



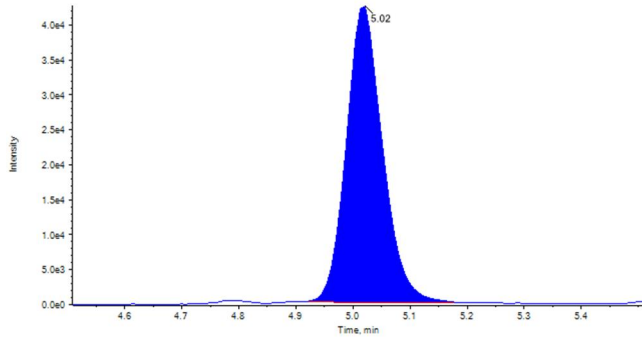
THC-COOH-D3 346.0 / 194.0



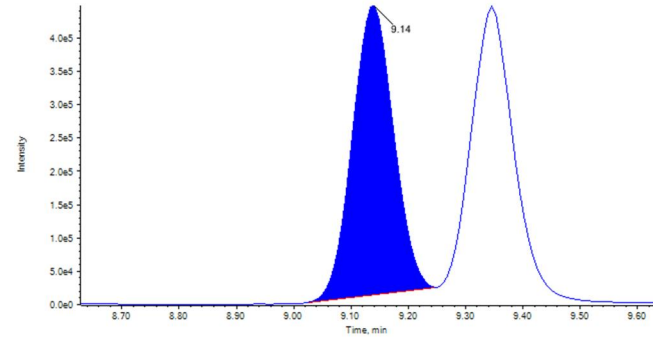
Sample Name: L2



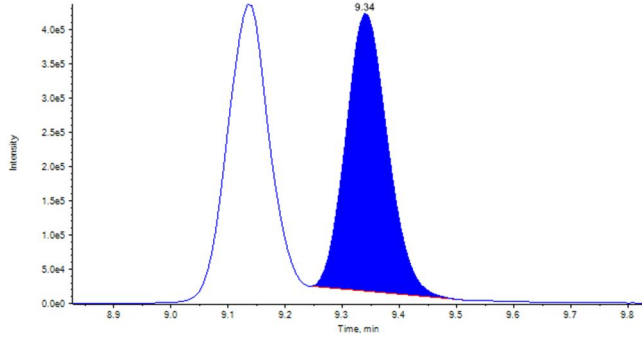
THC-OH-D3 334.1 / 196.1



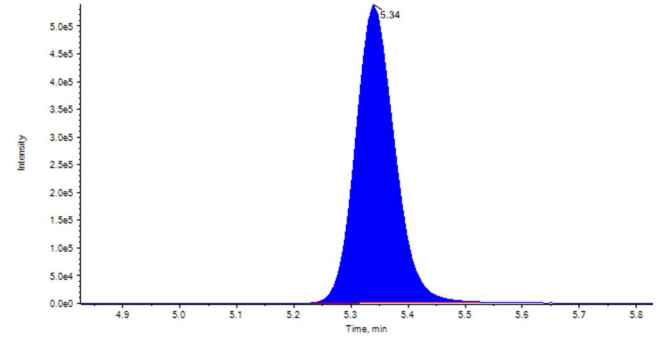
Δ 9-THC-D3 318.1 / 123.0



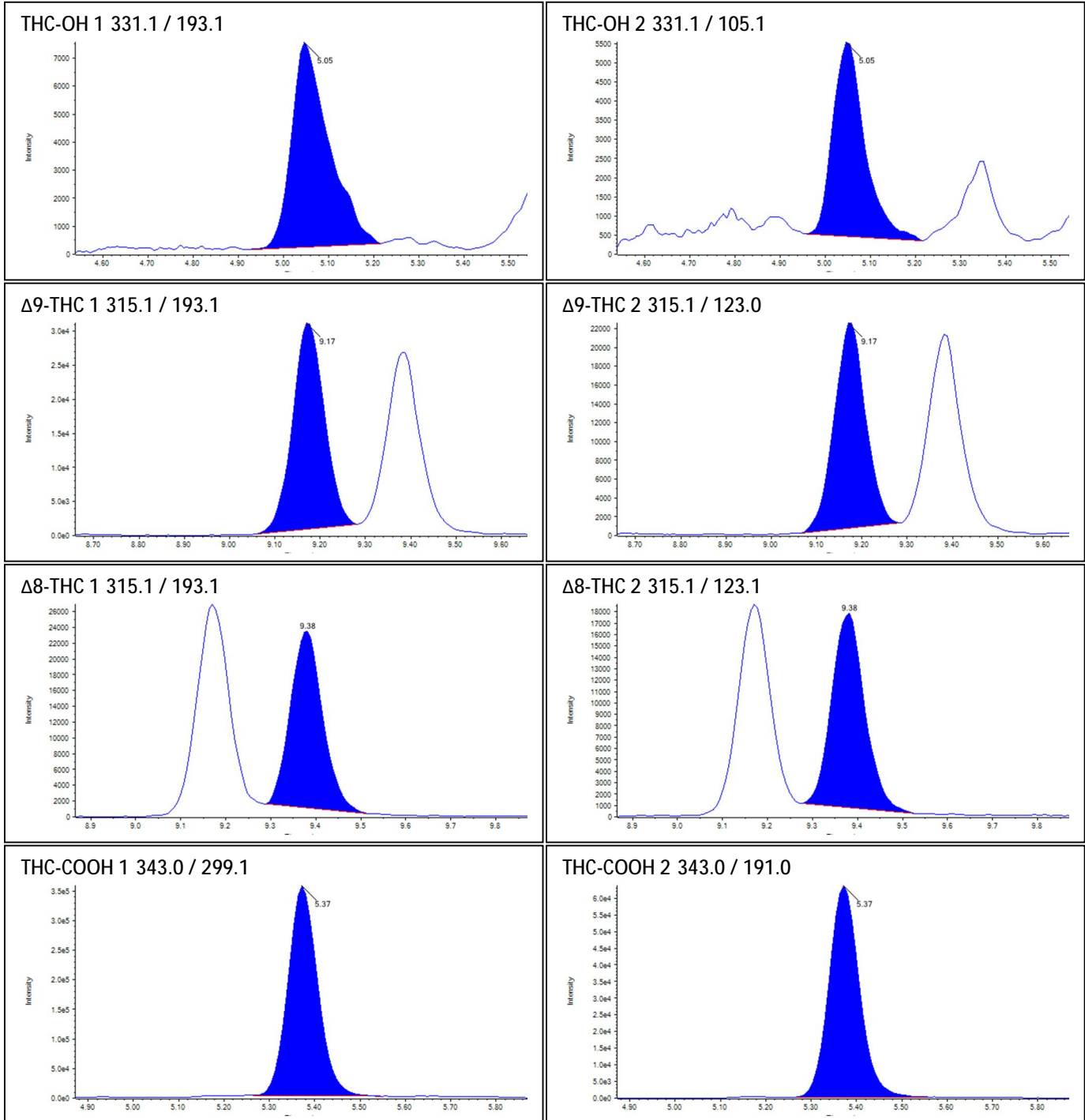
Δ 8-THC-D3 318.1 / 123.0



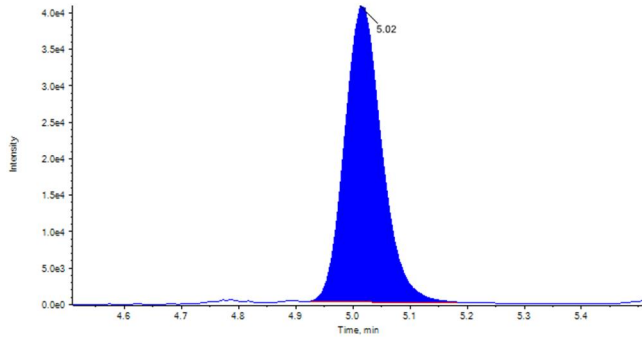
THC-COOH-D3 346.0 / 194.0



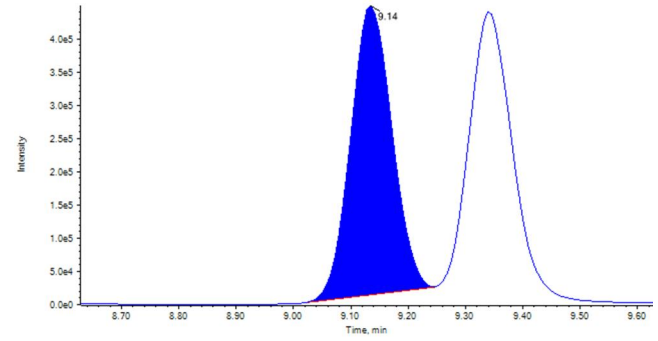
Sample Name: L3



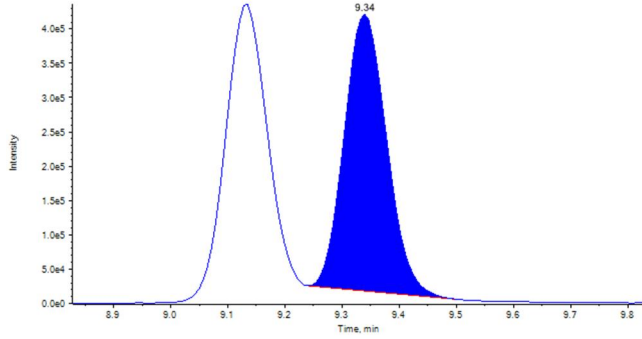
THC-OH-D3 334.1 / 196.1



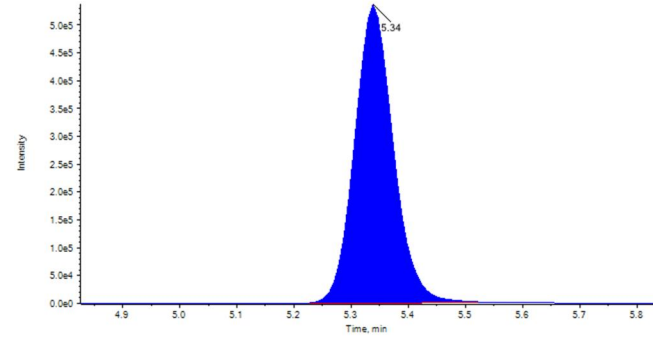
Δ 9-THC-D3 318.1 / 123.0



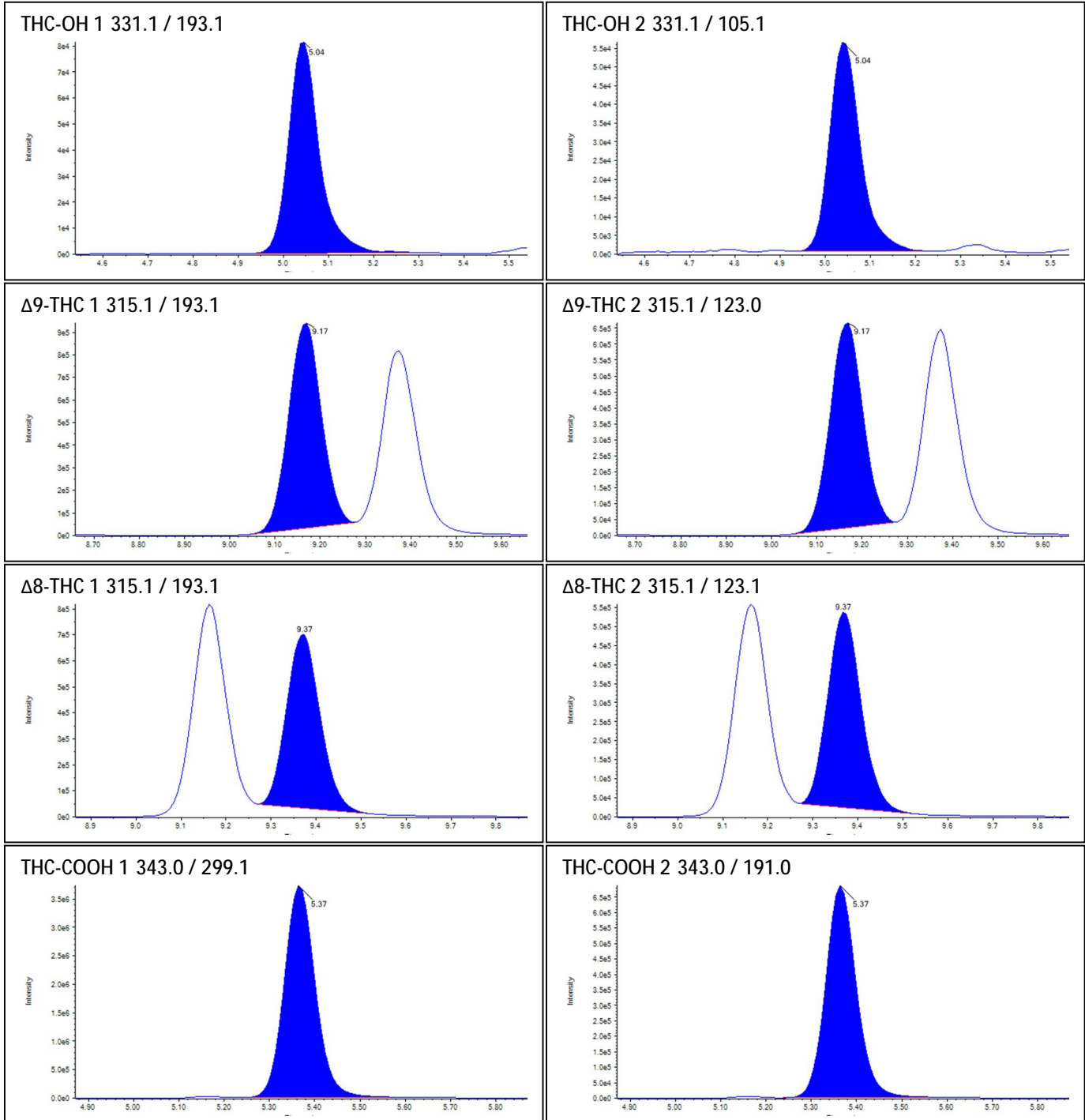
Δ 8-THC-D3 318.1 / 123.0

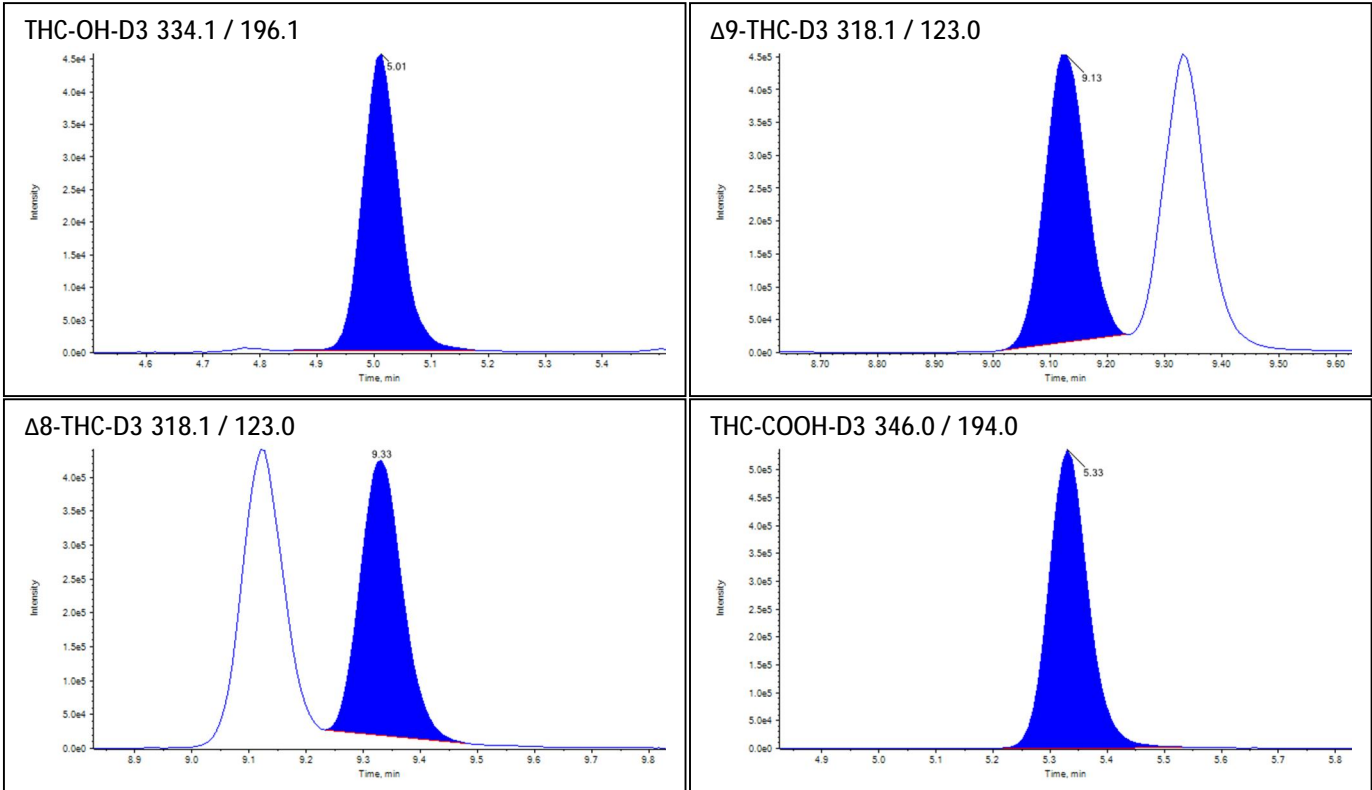


THC-COOH-D3 346.0 / 194.0

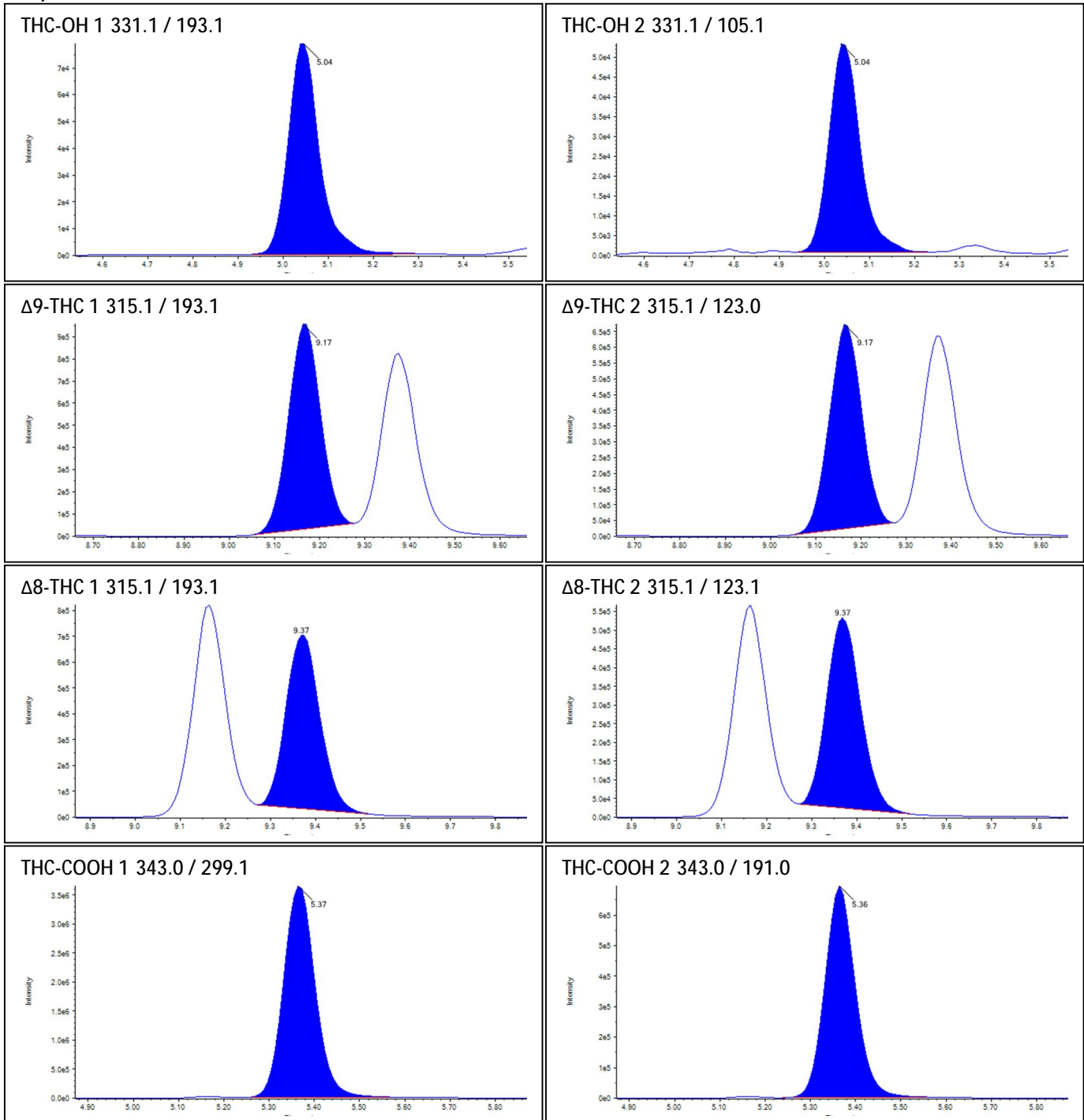


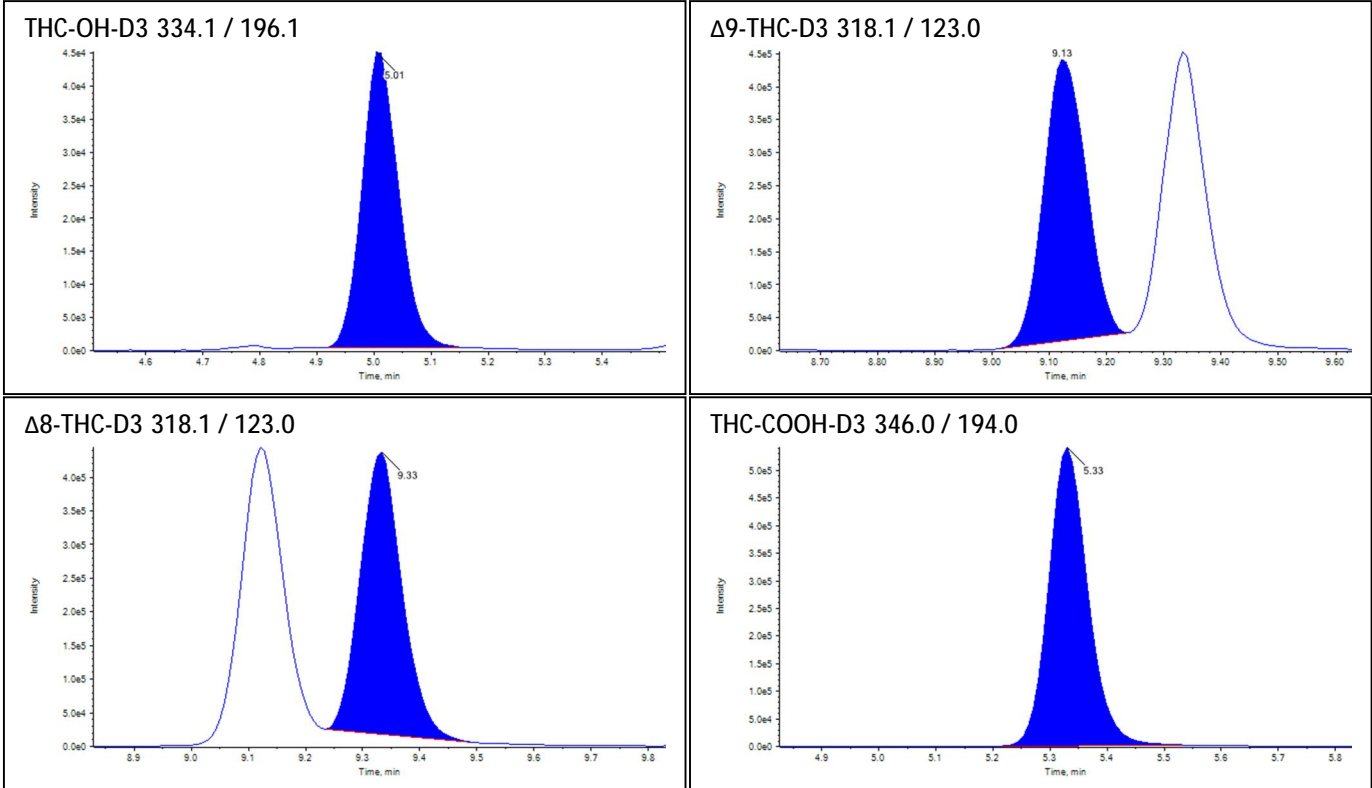
Sample Name: H1



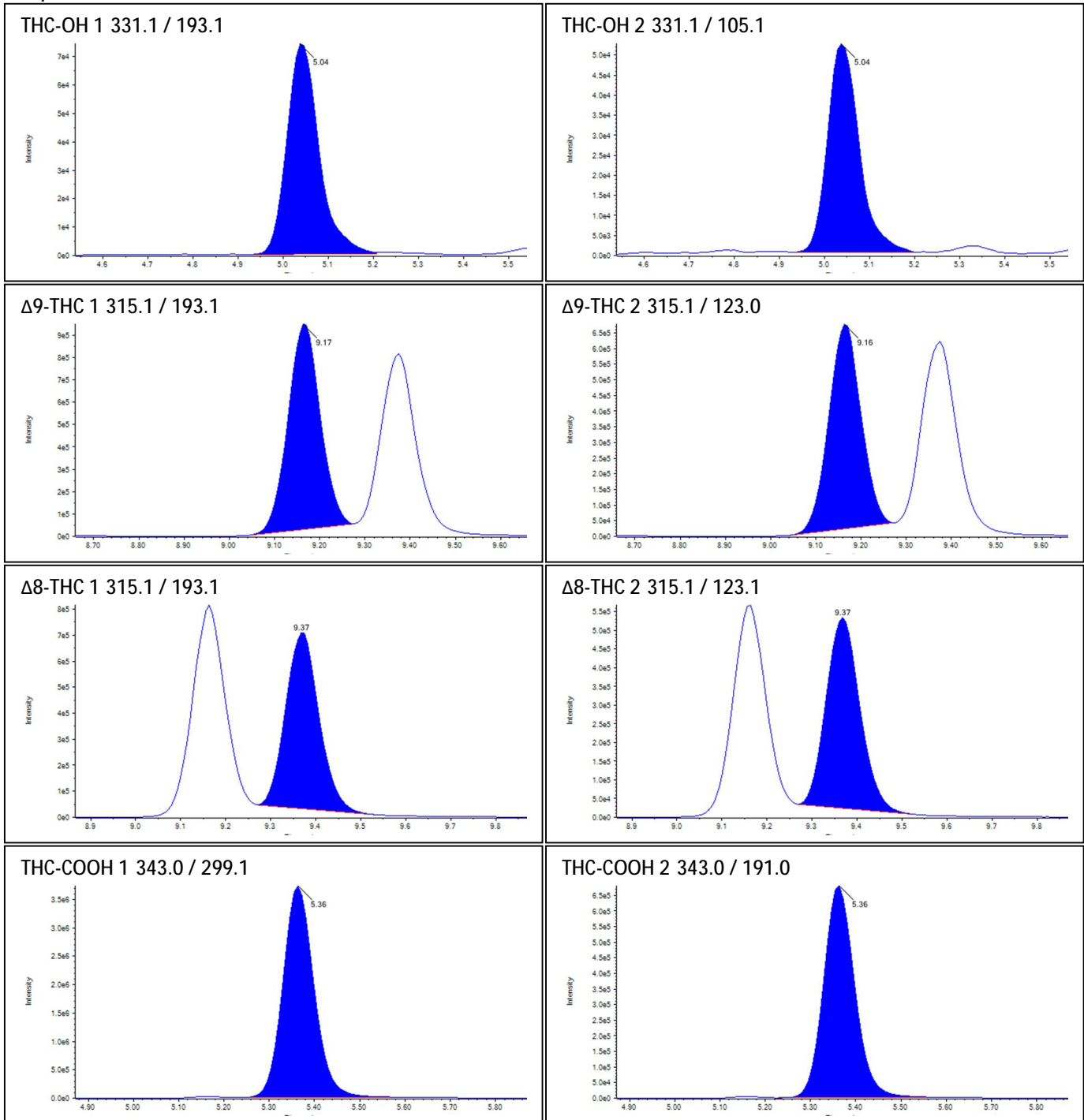


Sample Name: H2

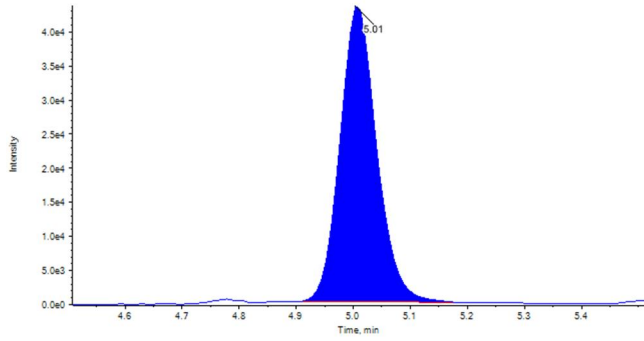




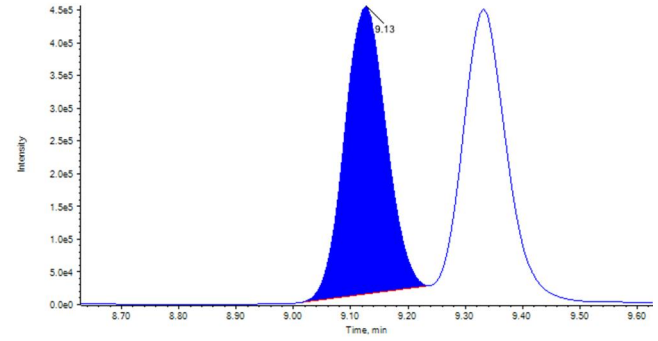
Sample Name: H3



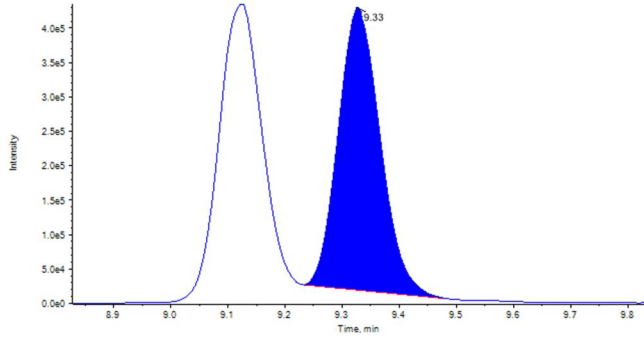
THC-OH-D3 334.1 / 196.1



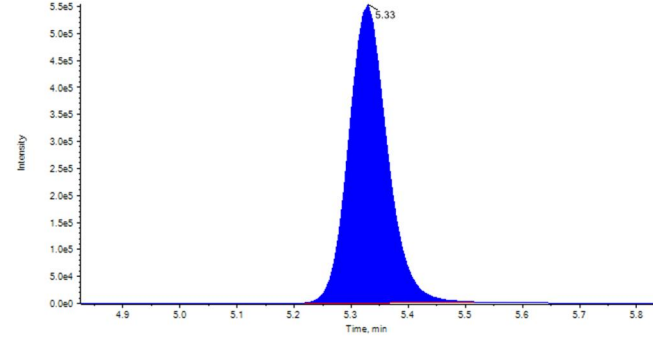
Δ 9-THC-D3 318.1 / 123.0



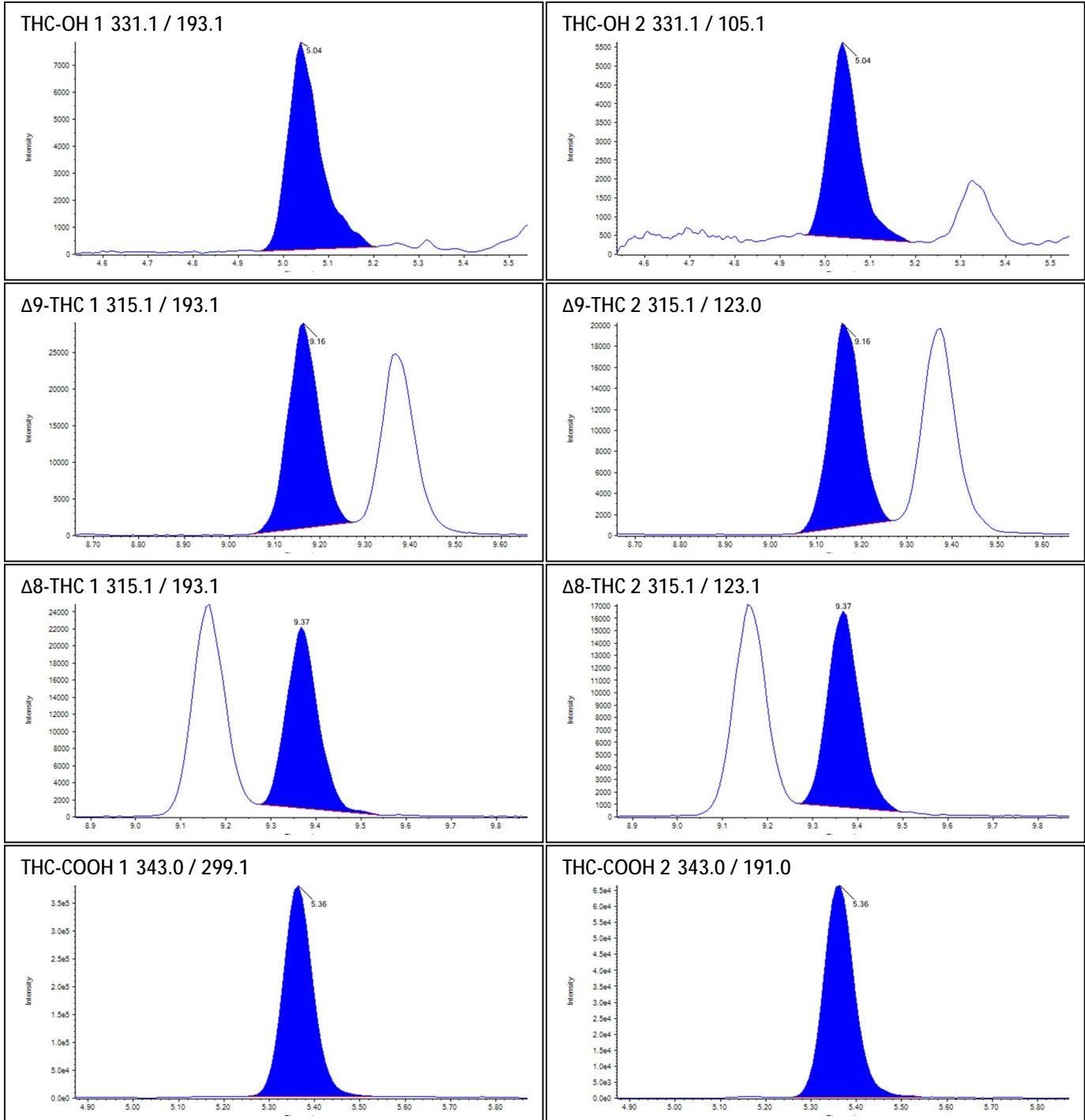
Δ 8-THC-D3 318.1 / 123.0

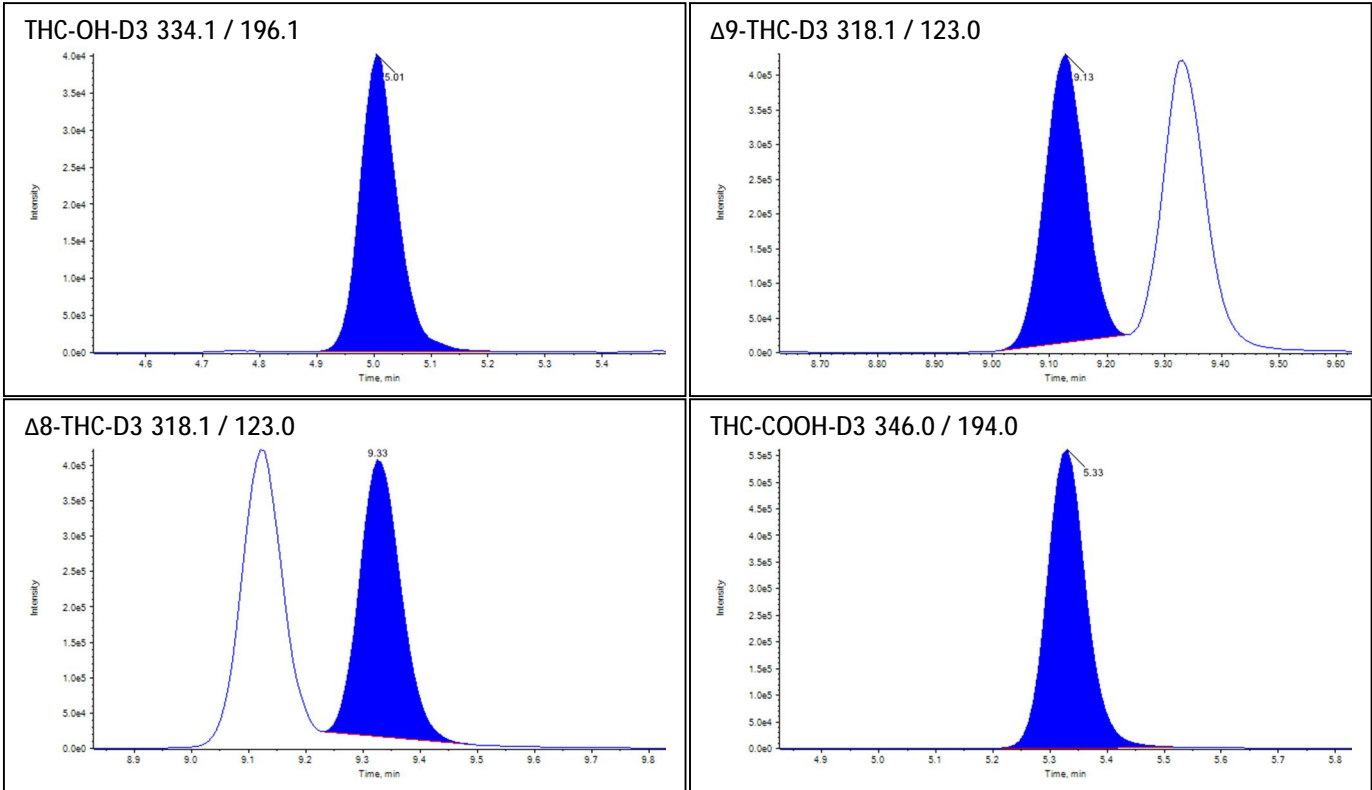


THC-COOH-D3 346.0 / 194.0

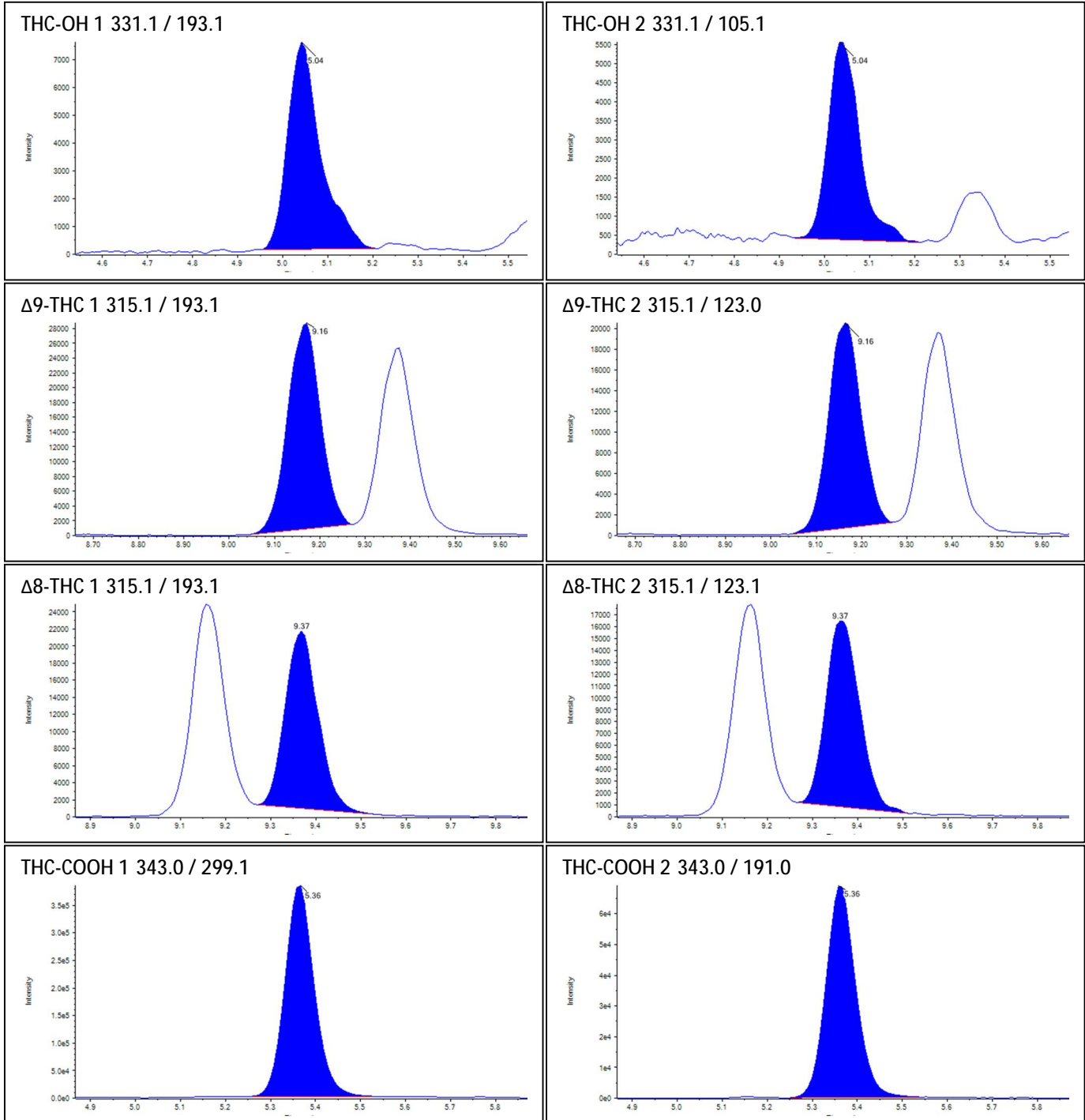


Sample Name: L1

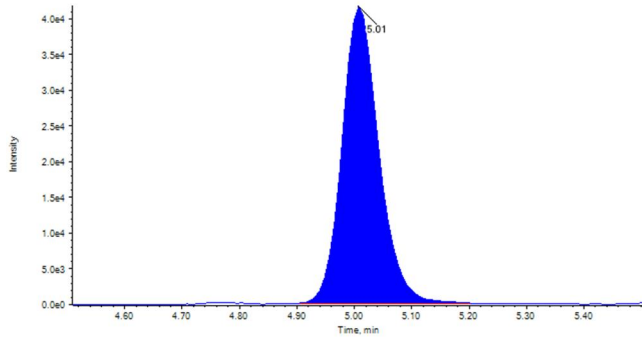




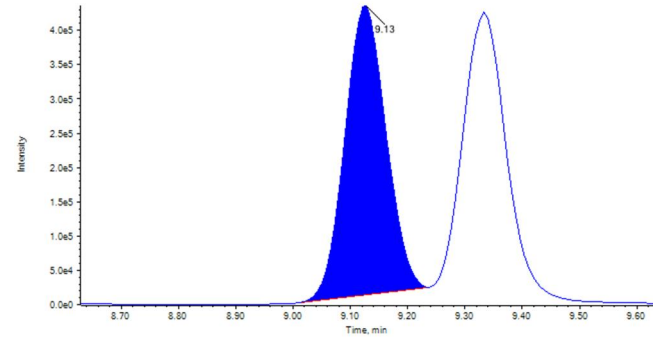
Sample Name: L2



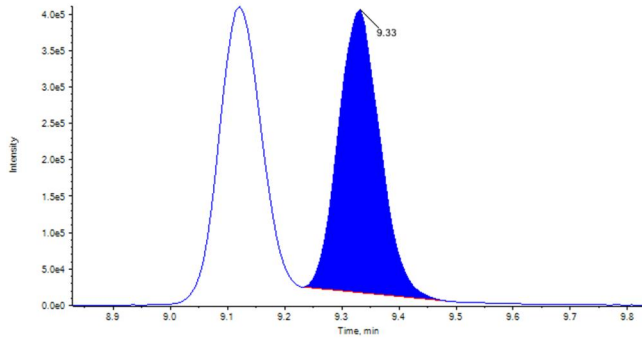
THC-OH-D3 334.1 / 196.1



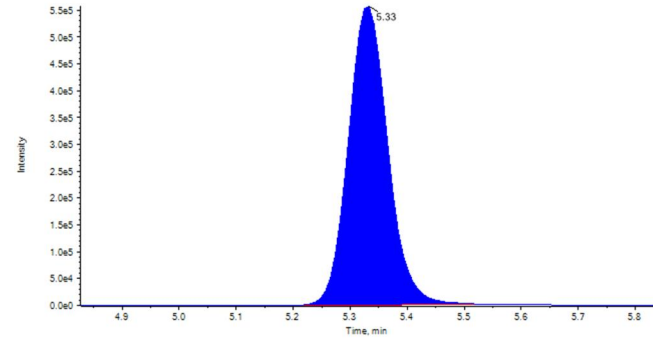
Δ 9-THC-D3 318.1 / 123.0



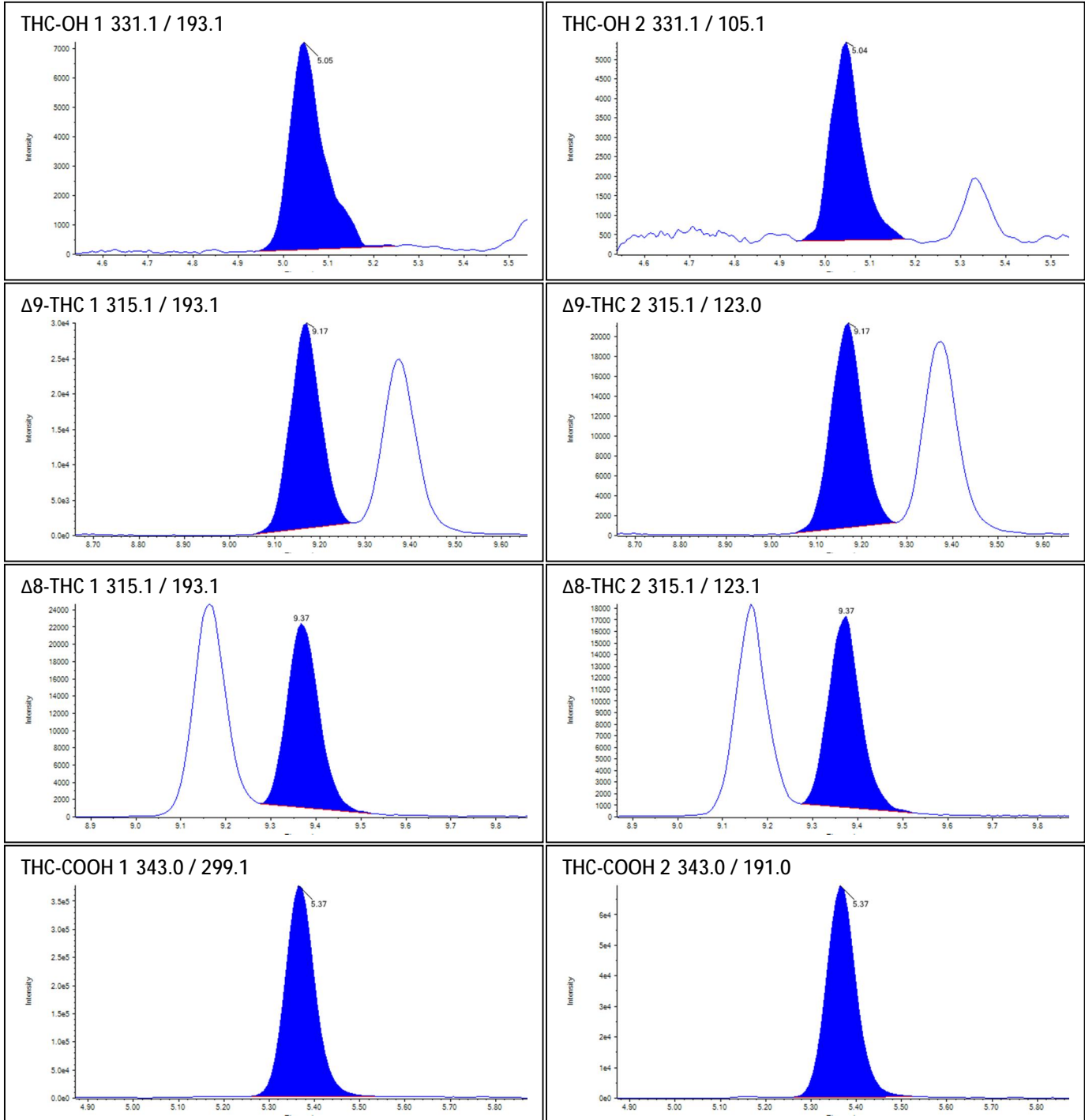
Δ 8-THC-D3 318.1 / 123.0

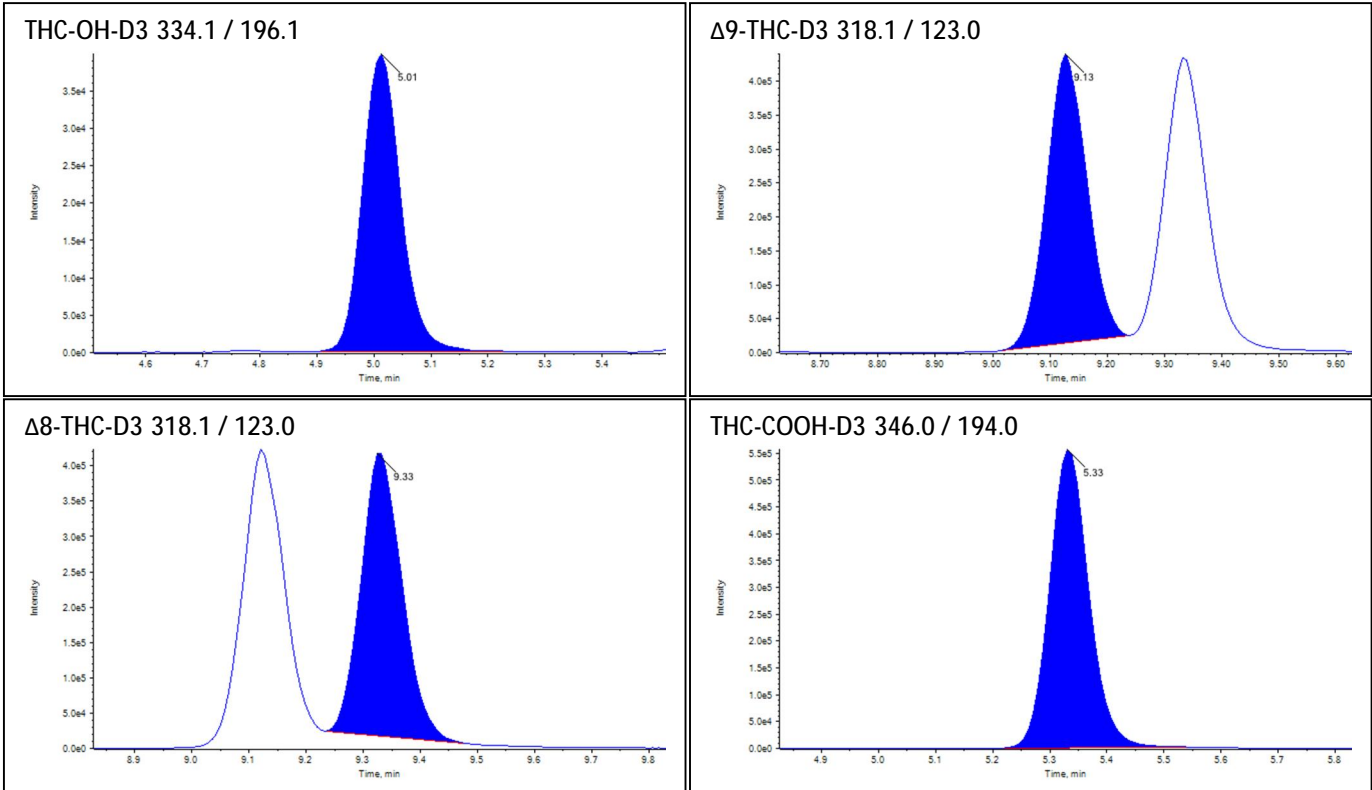


THC-COOH-D3 346.0 / 194.0

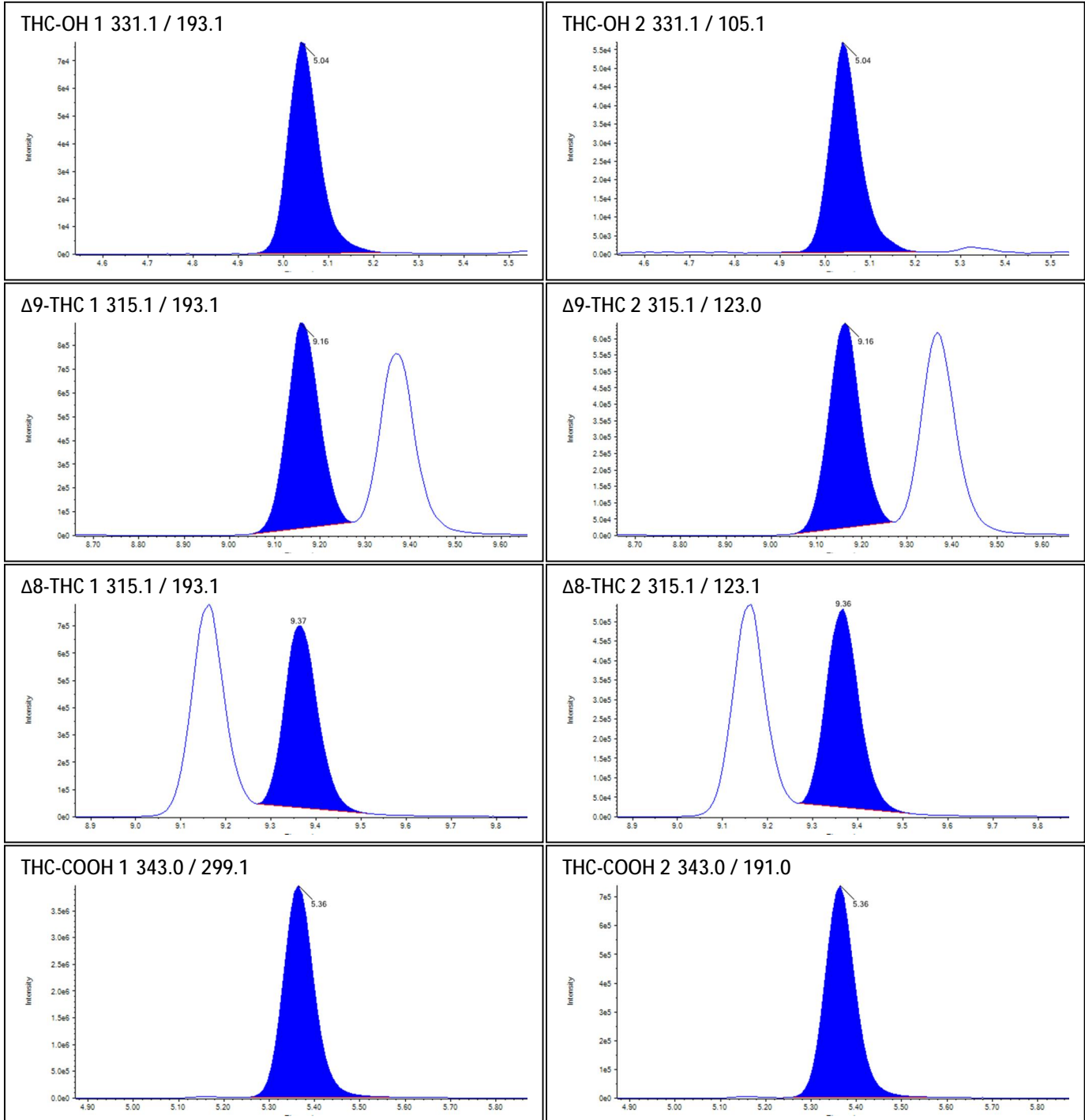


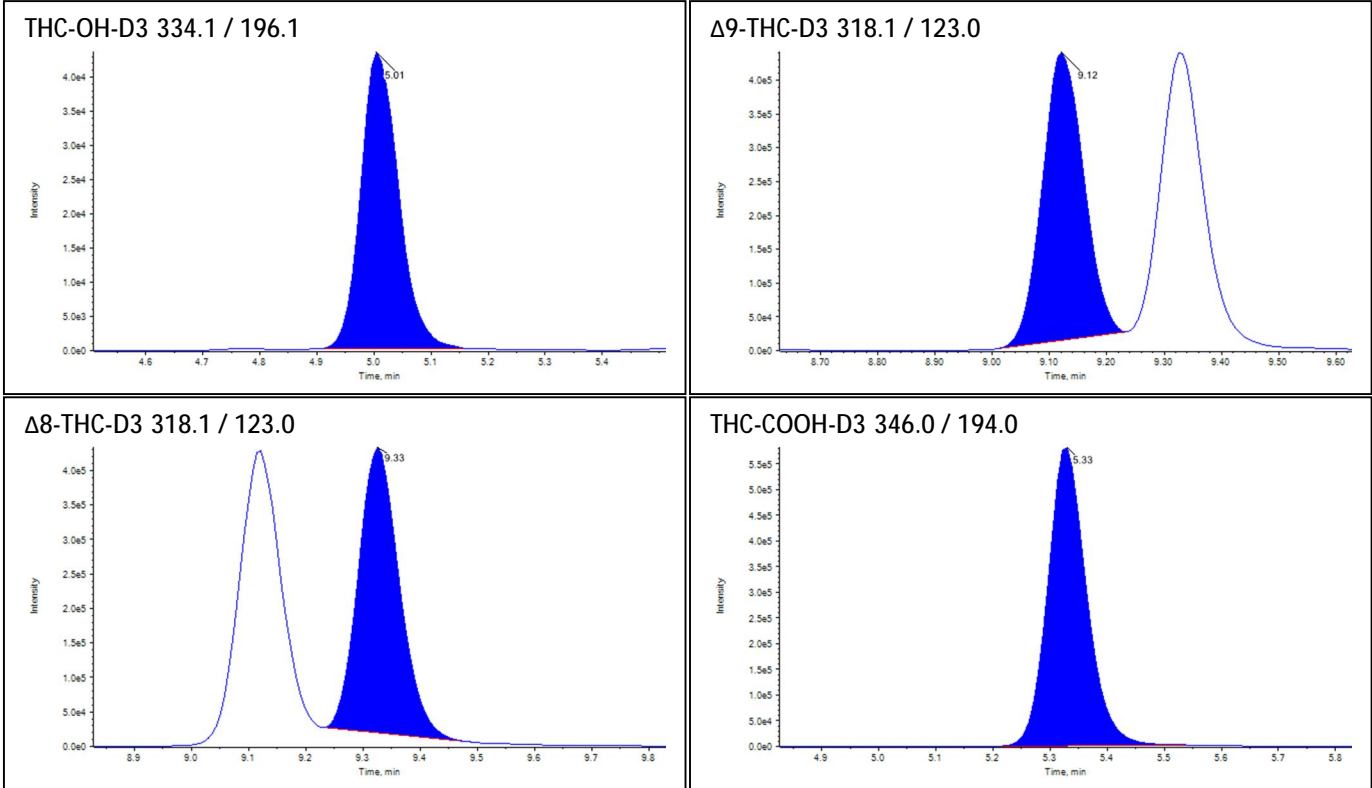
Sample Name: L3



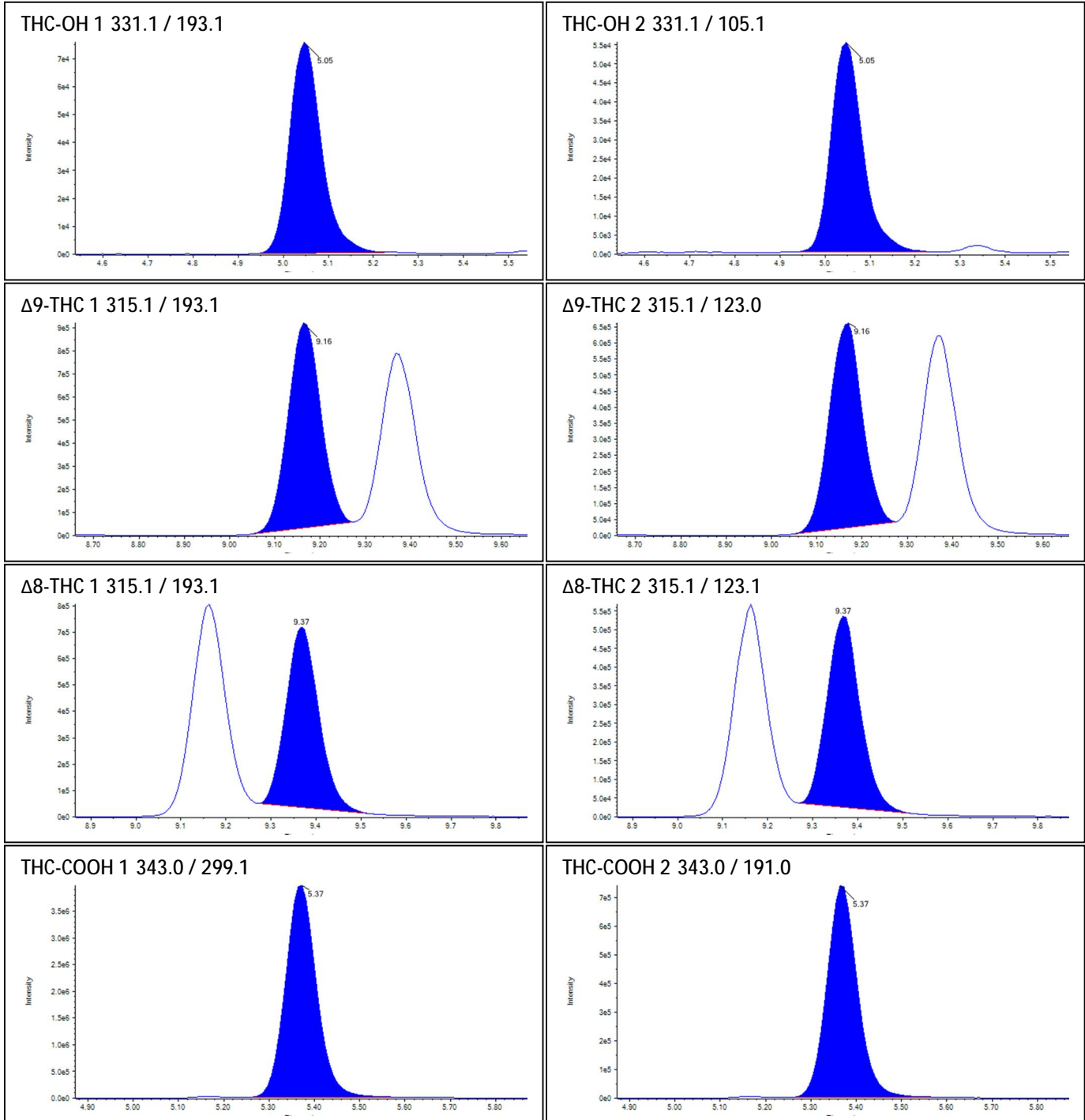


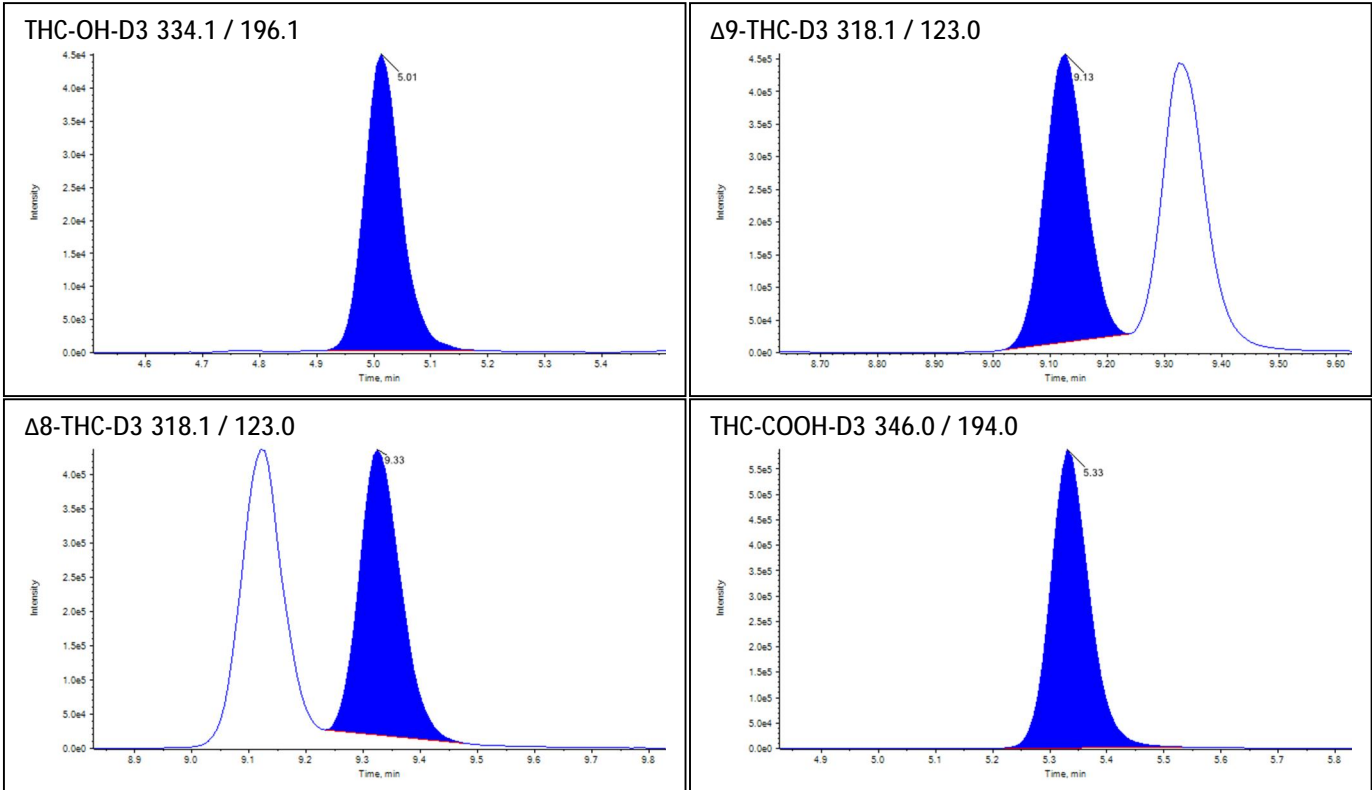
Sample Name: H1



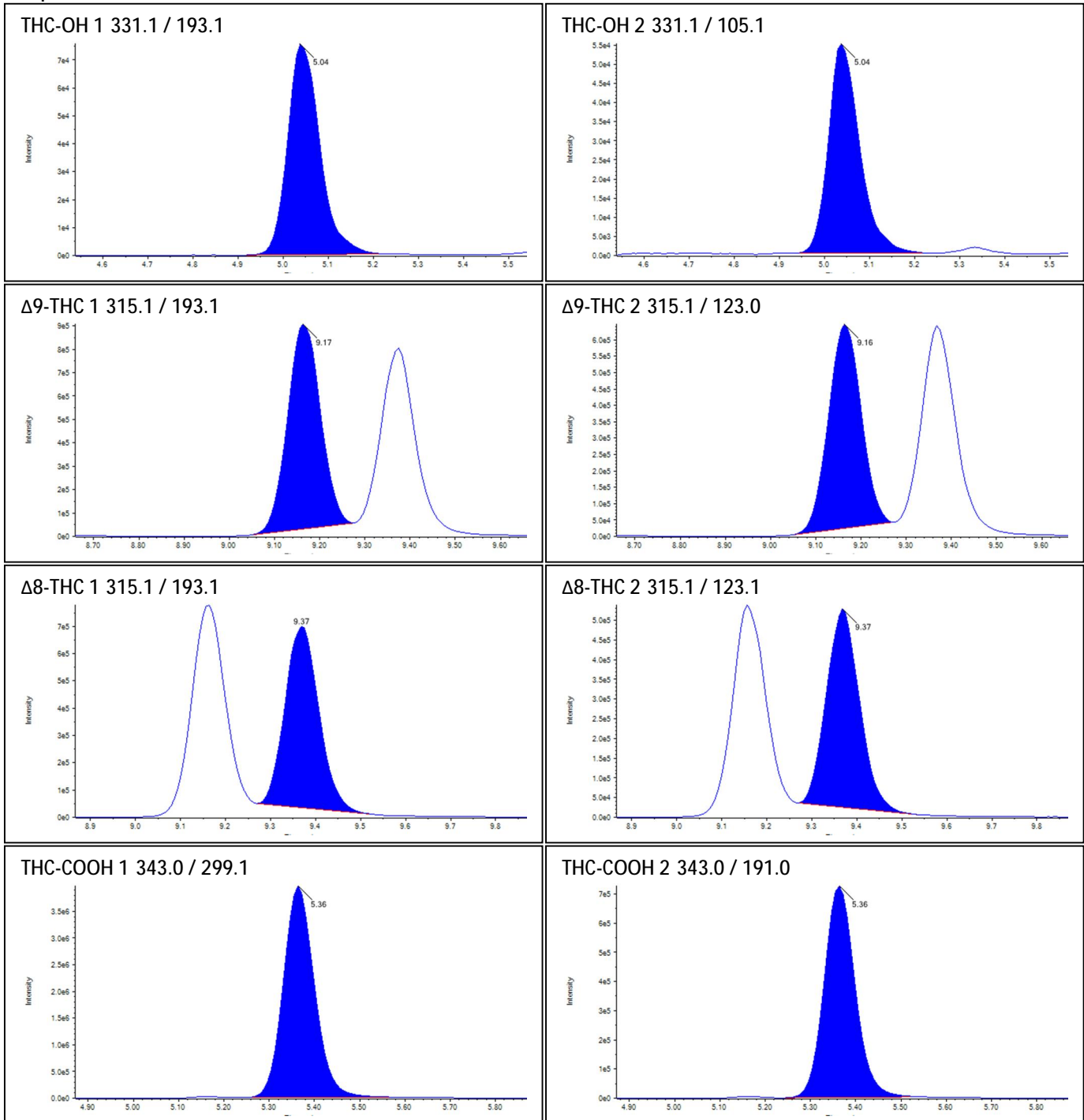


Sample Name: H2

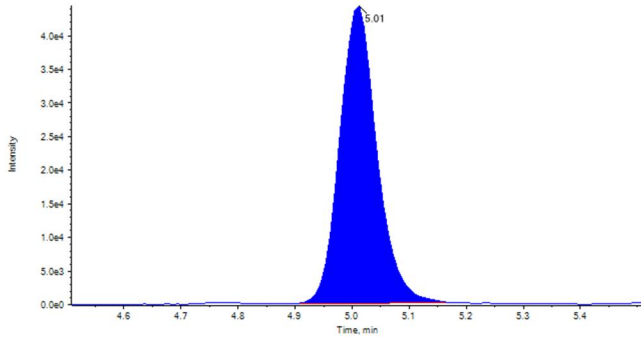




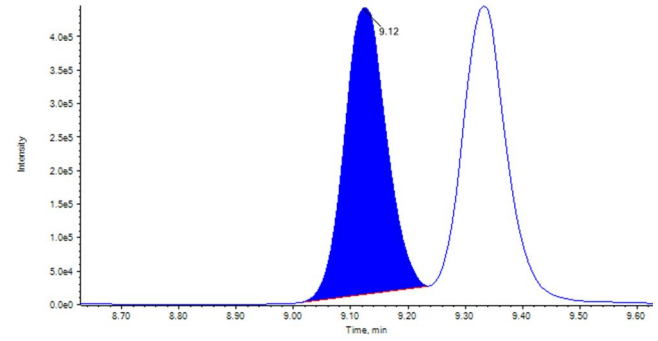
Sample Name: H3



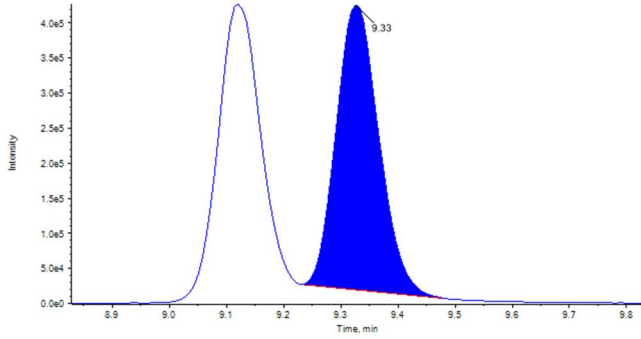
THC-OH-D3 334.1 / 196.1



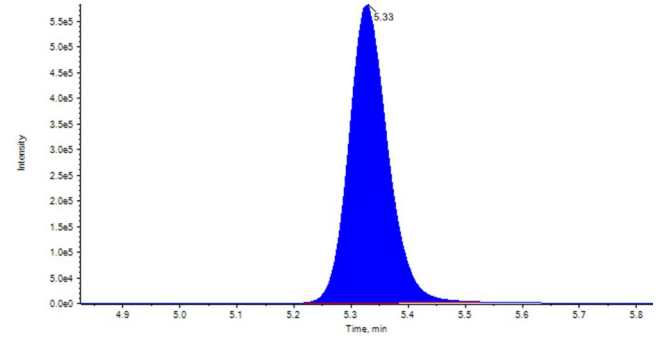
Δ 9-THC-D3 318.1 / 123.0



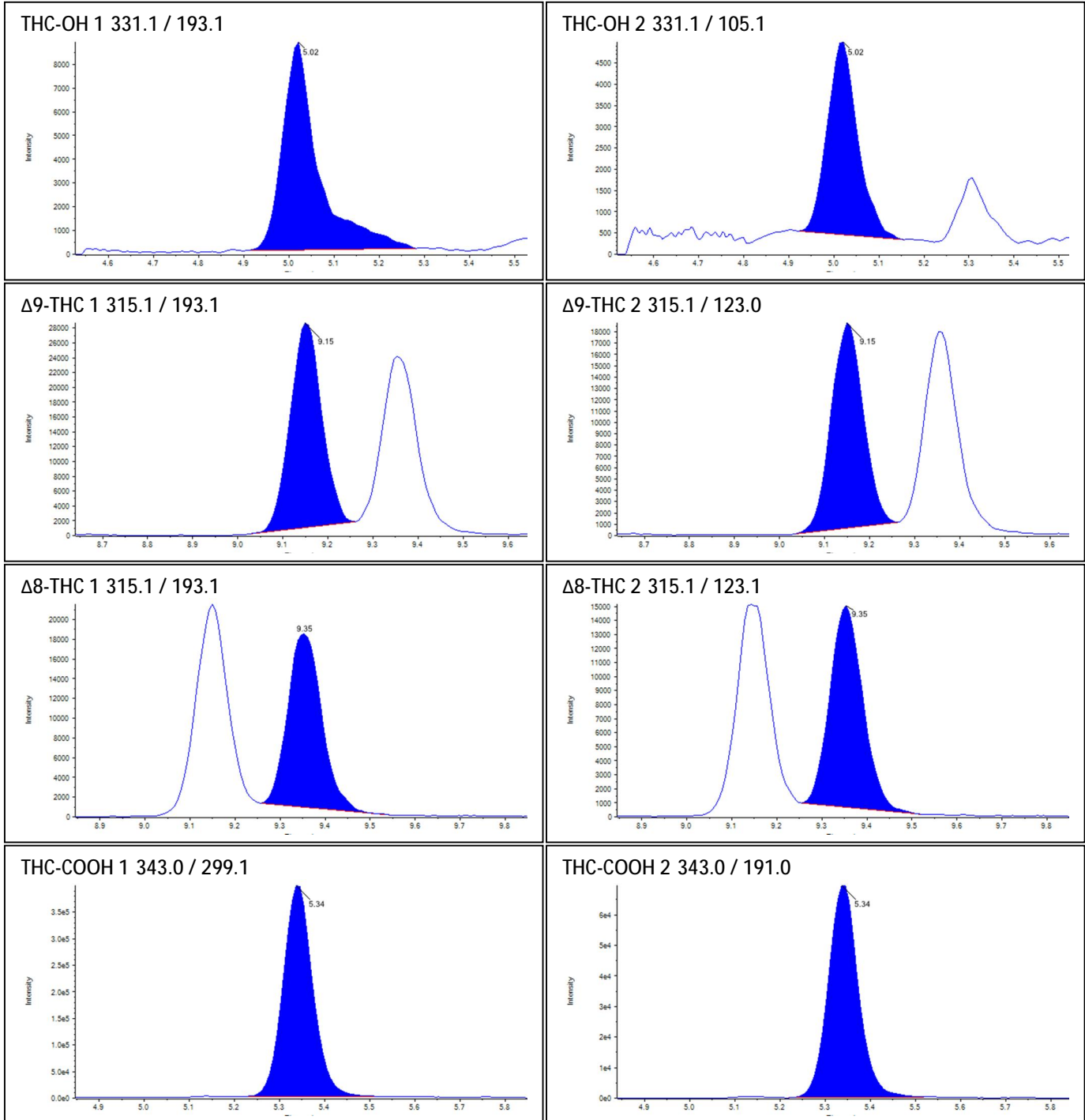
Δ 8-THC-D3 318.1 / 123.0



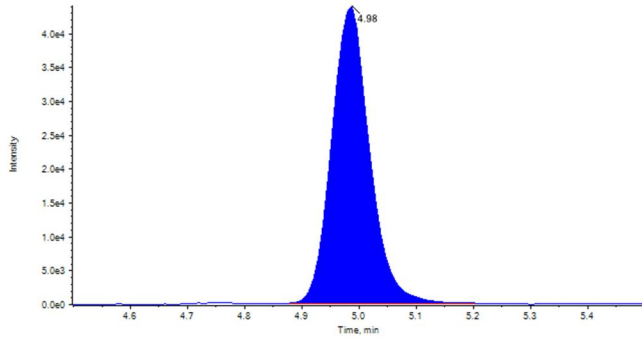
THC-COOH-D3 346.0 / 194.0



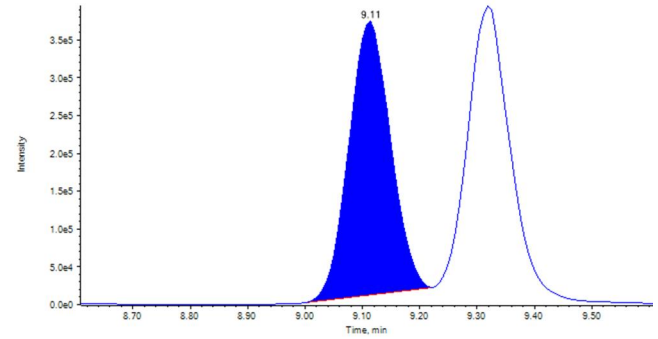
Sample Name: L1



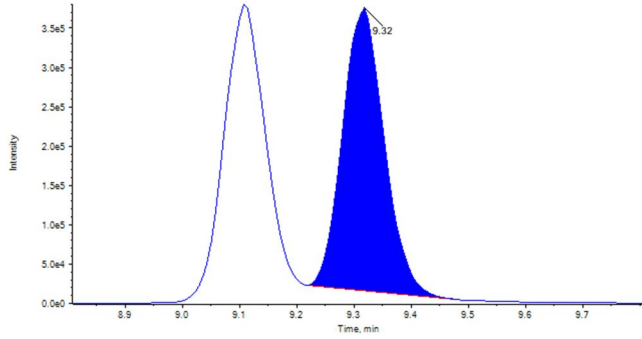
THC-OH-D3 334.1 / 196.1



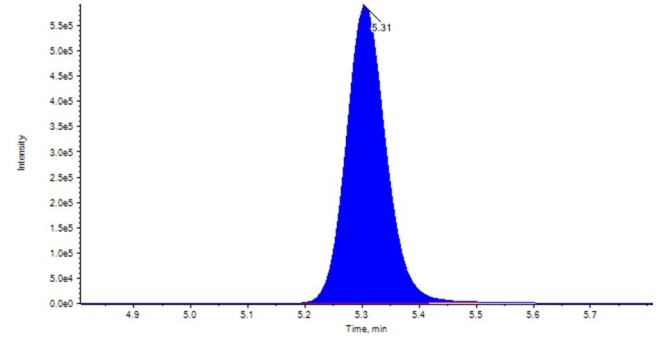
Δ 9-THC-D3 318.1 / 123.0



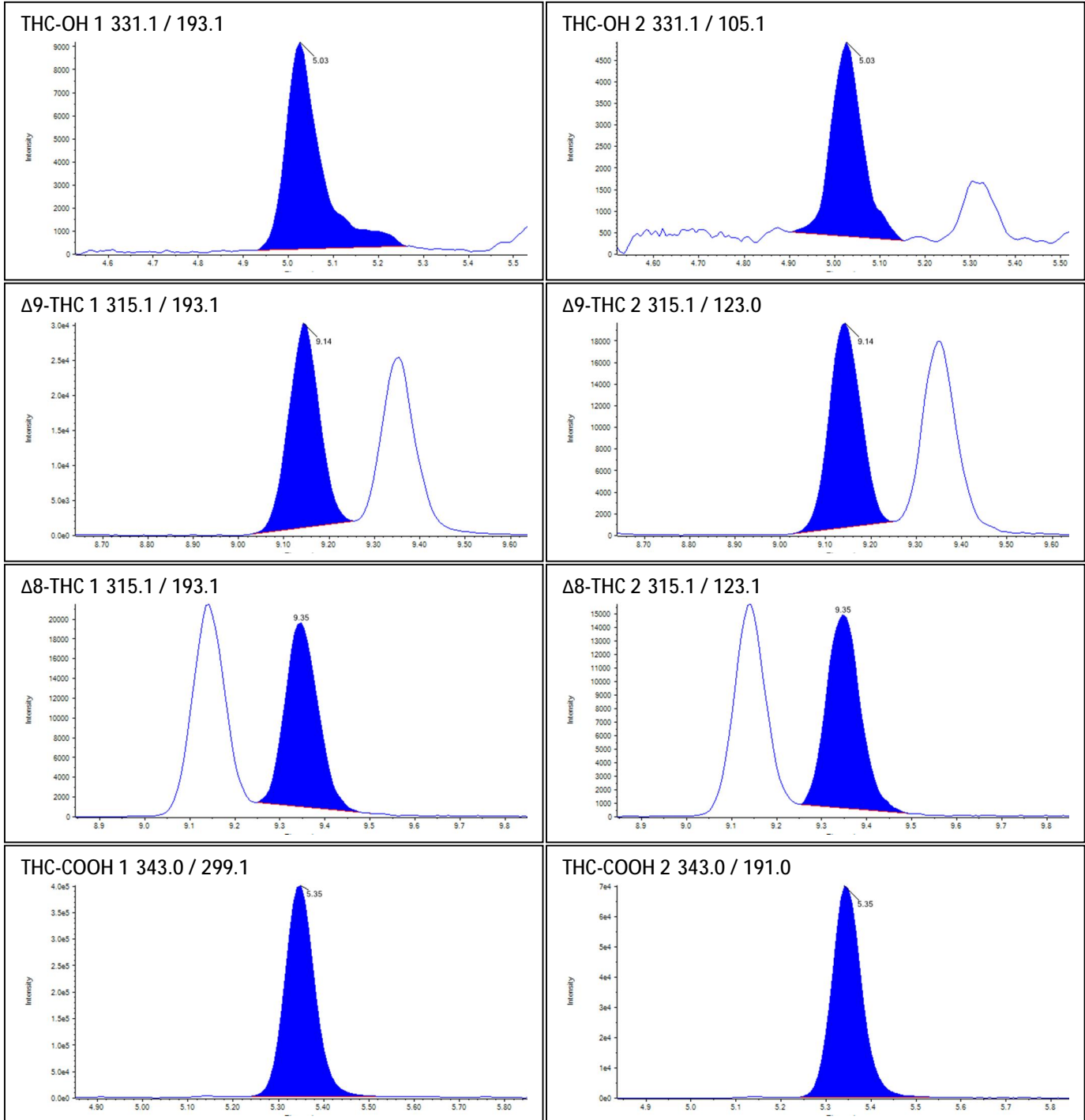
Δ 8-THC-D3 318.1 / 123.0

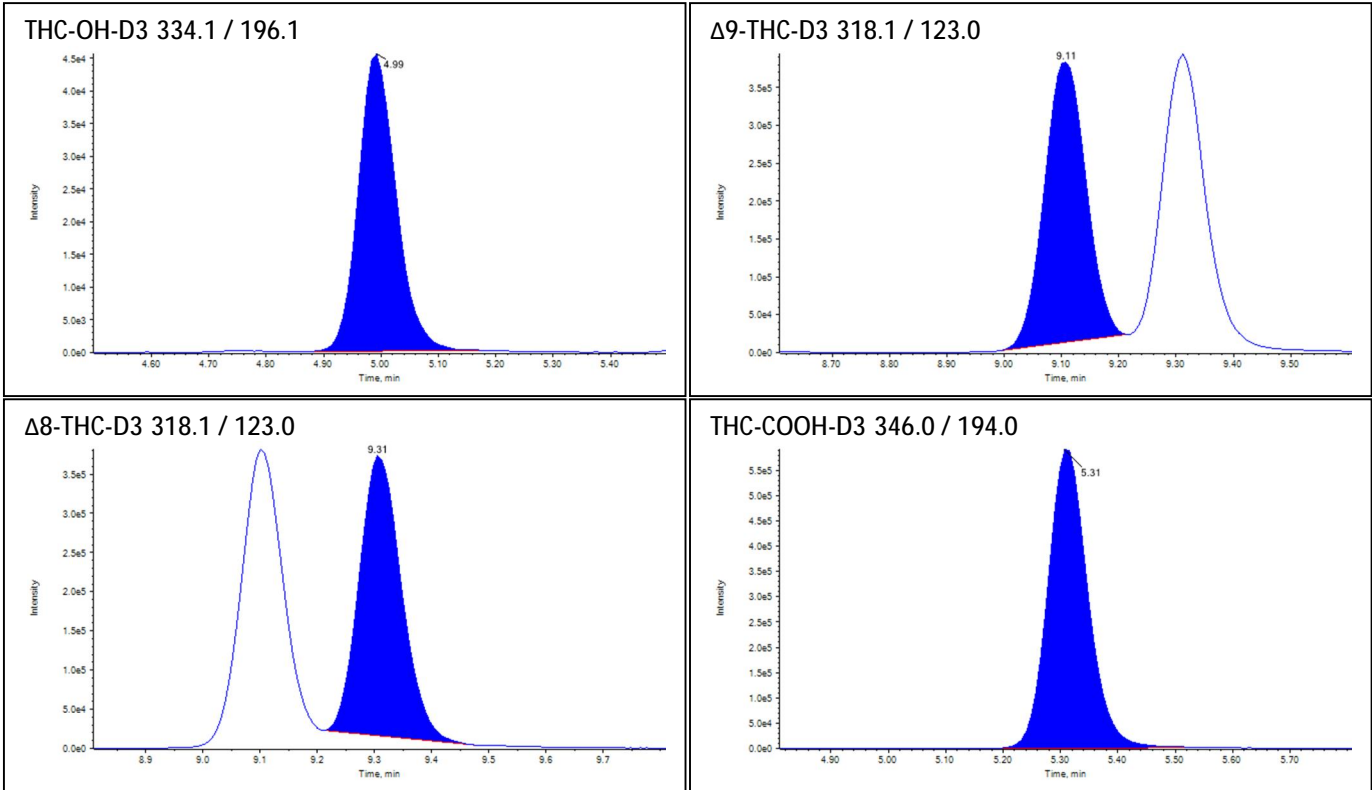


THC-COOH-D3 346.0 / 194.0

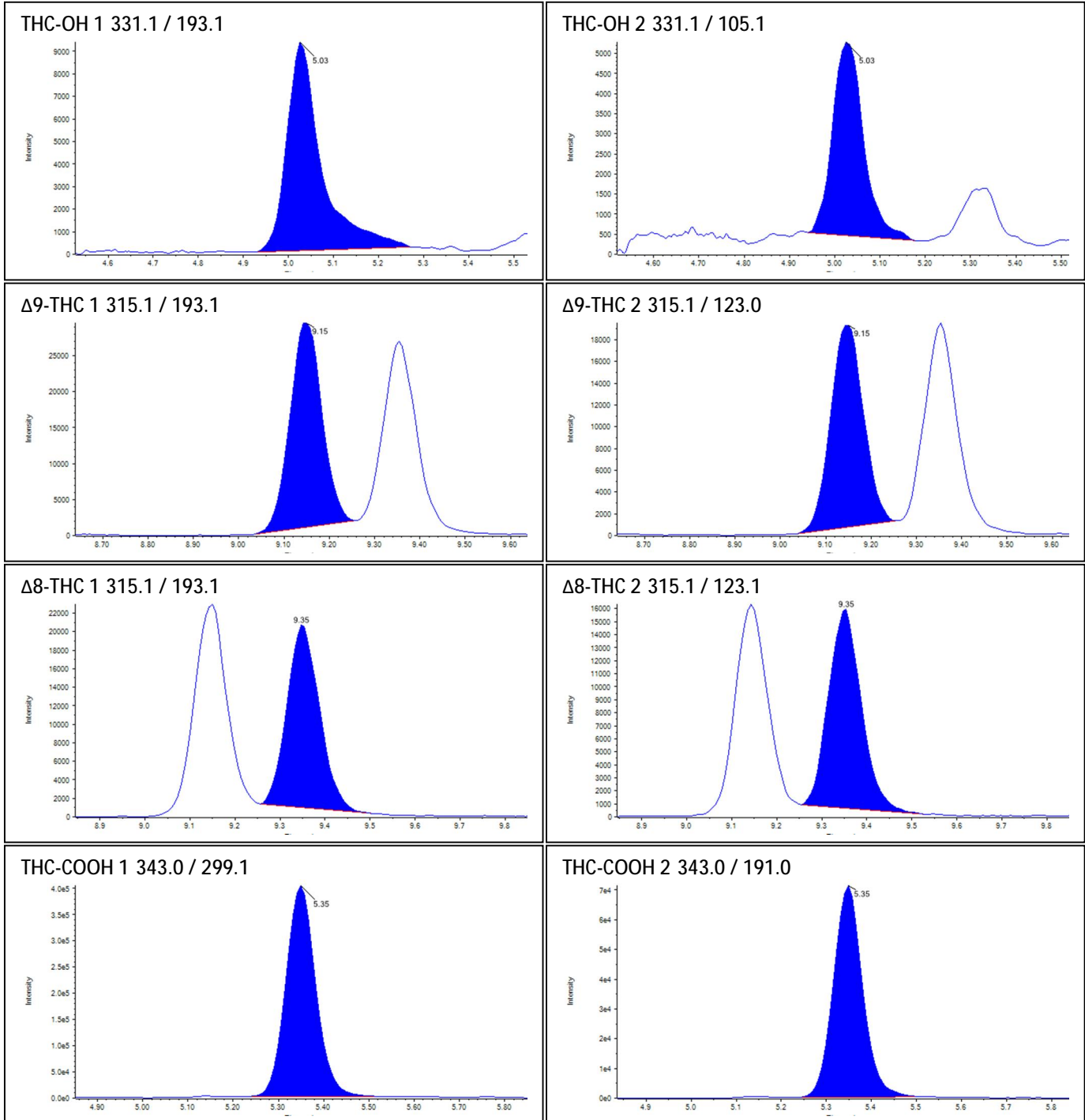


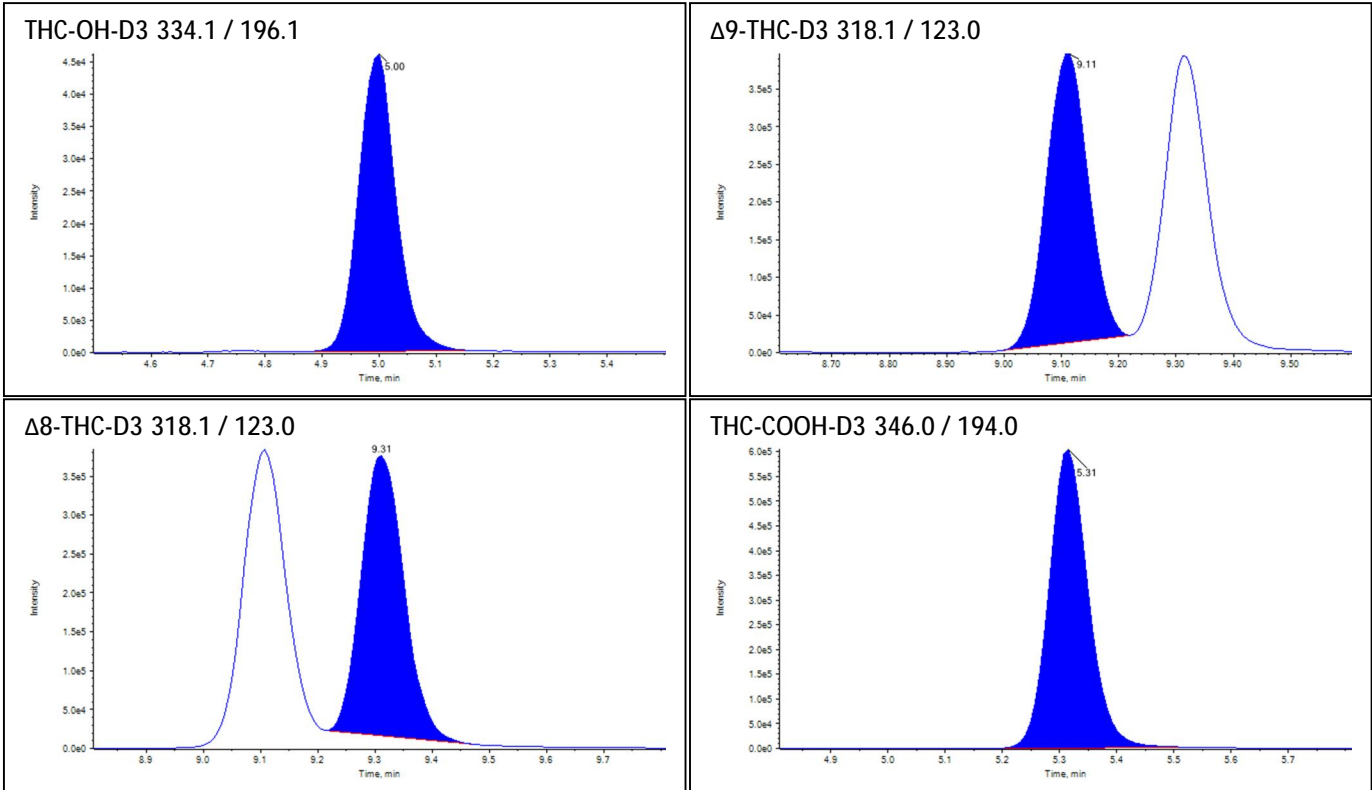
Sample Name: L2



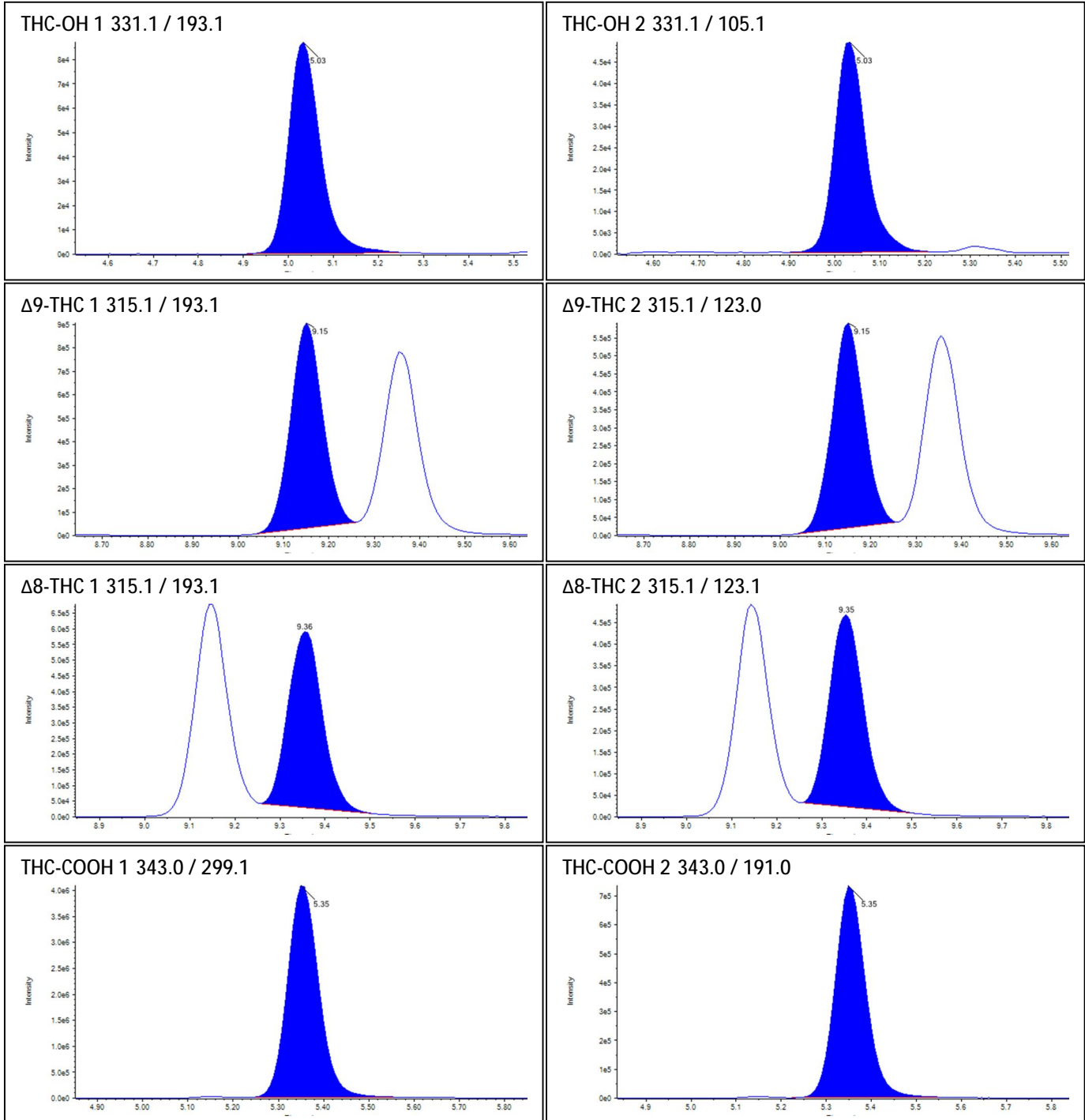


Sample Name: L3

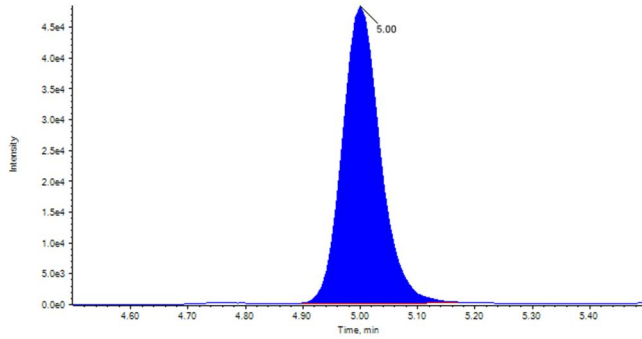




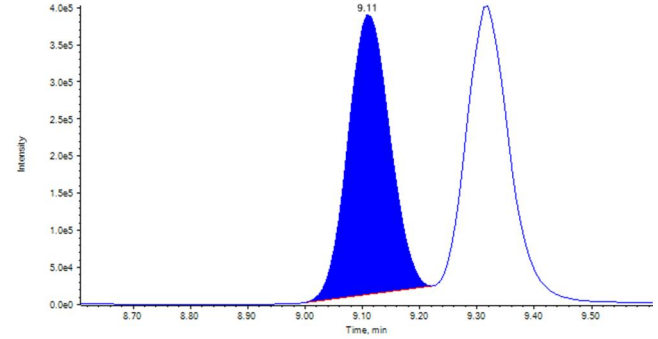
Sample Name: H1



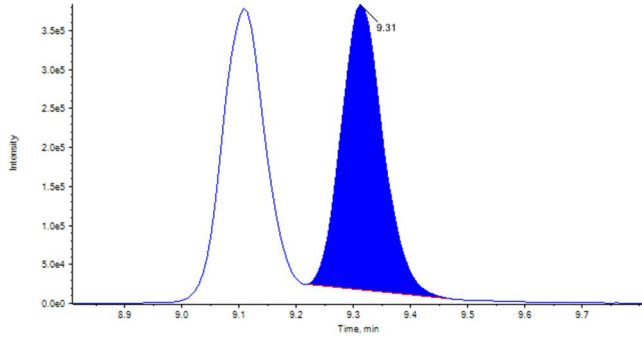
THC-OH-D3 334.1 / 196.1



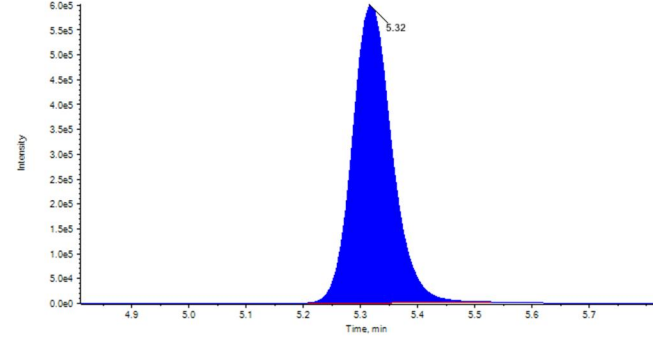
Δ 9-THC-D3 318.1 / 123.0



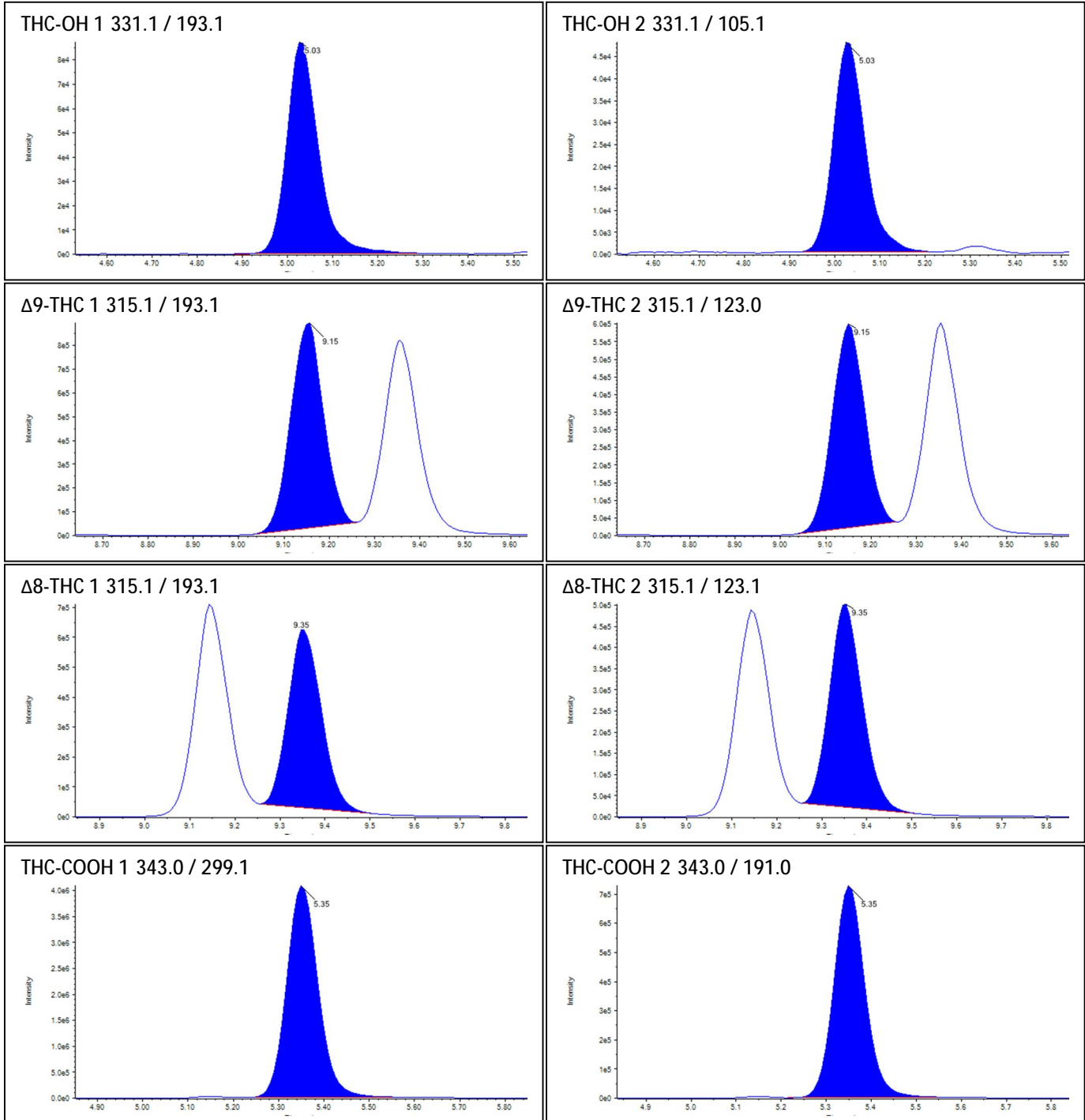
Δ 8-THC-D3 318.1 / 123.0



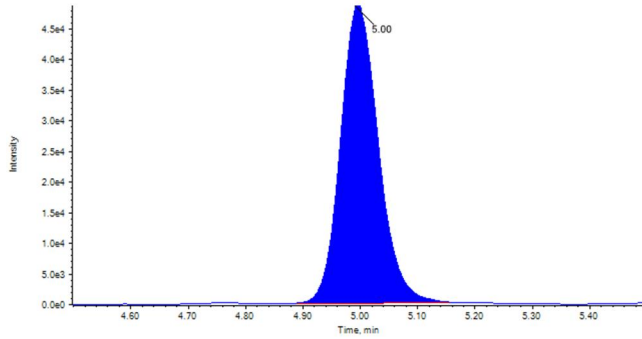
THC-COOH-D3 346.0 / 194.0



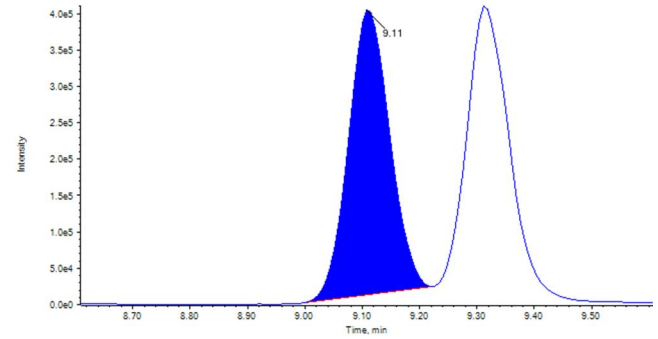
Sample Name: H2



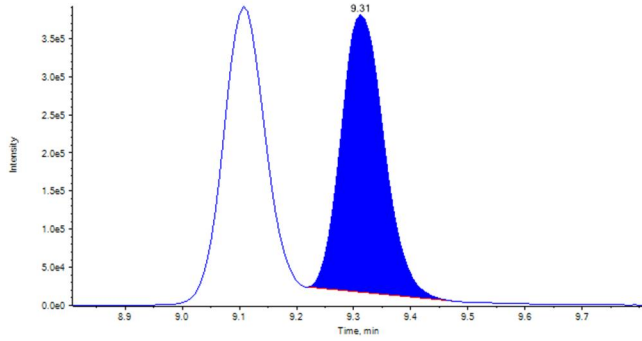
THC-OH-D3 334.1 / 196.1



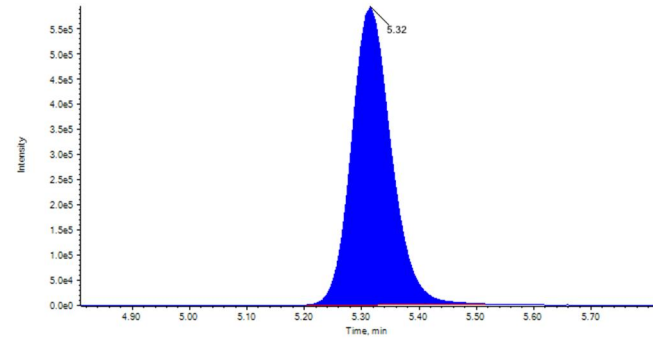
Δ 9-THC-D3 318.1 / 123.0



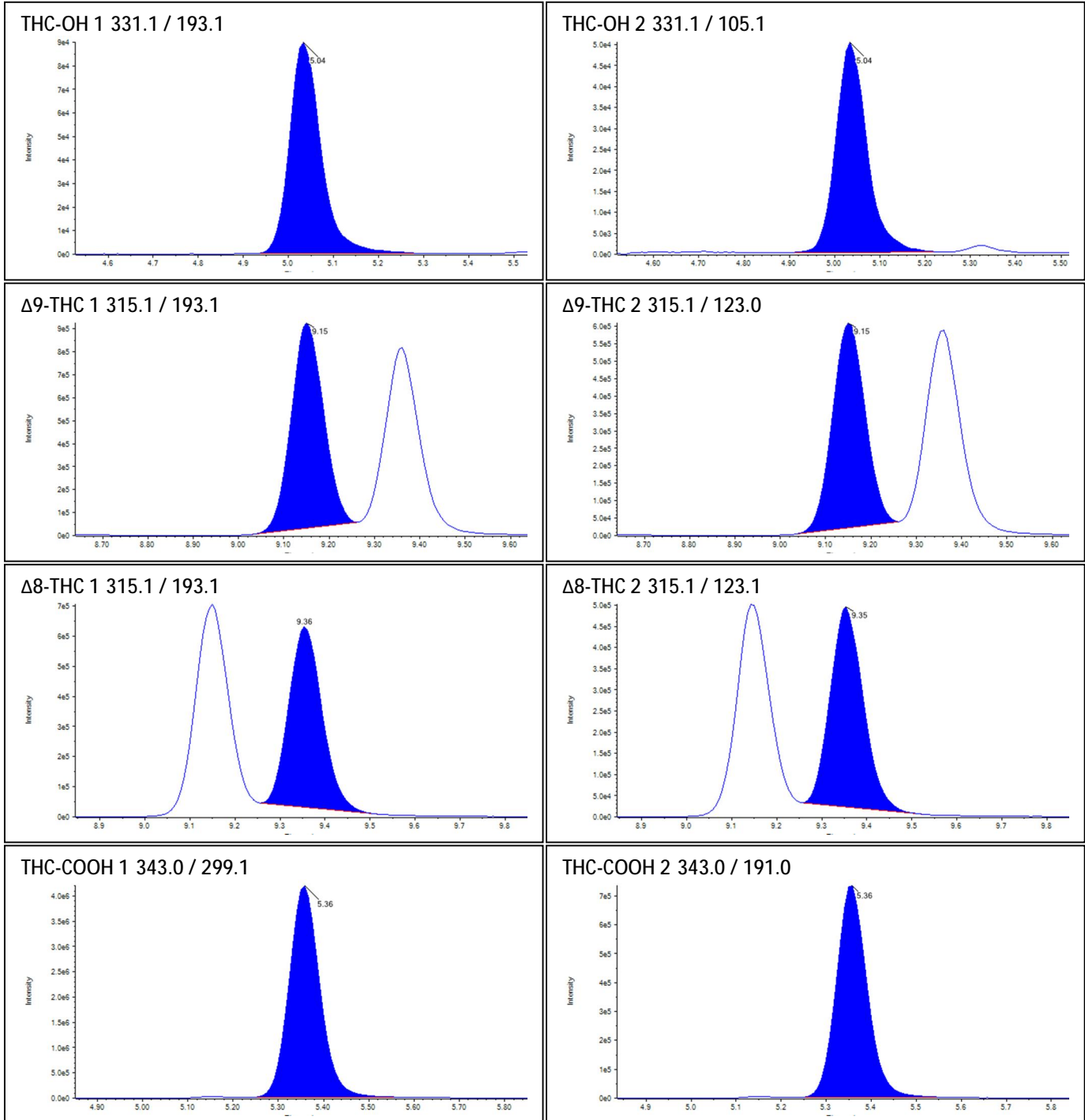
Δ 8-THC-D3 318.1 / 123.0

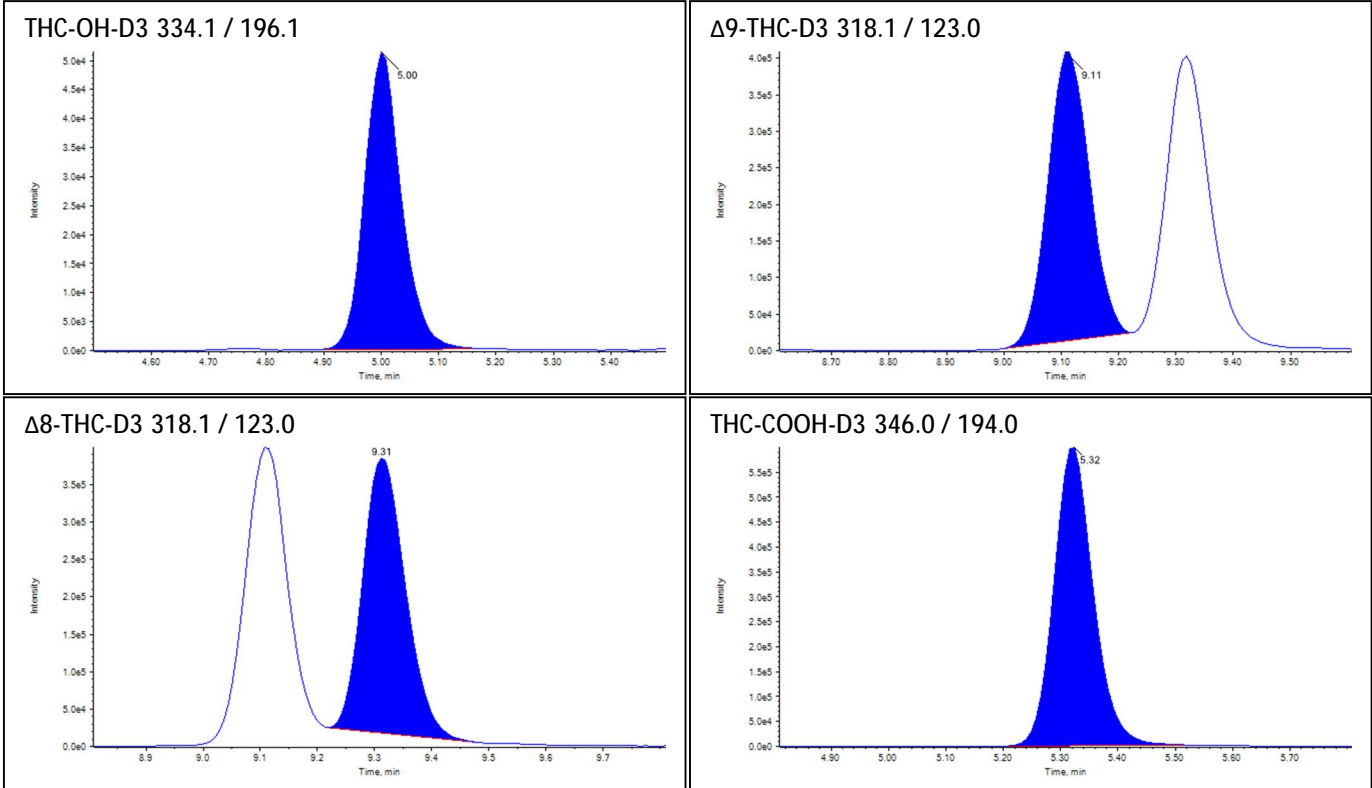


THC-COOH-D3 346.0 / 194.0

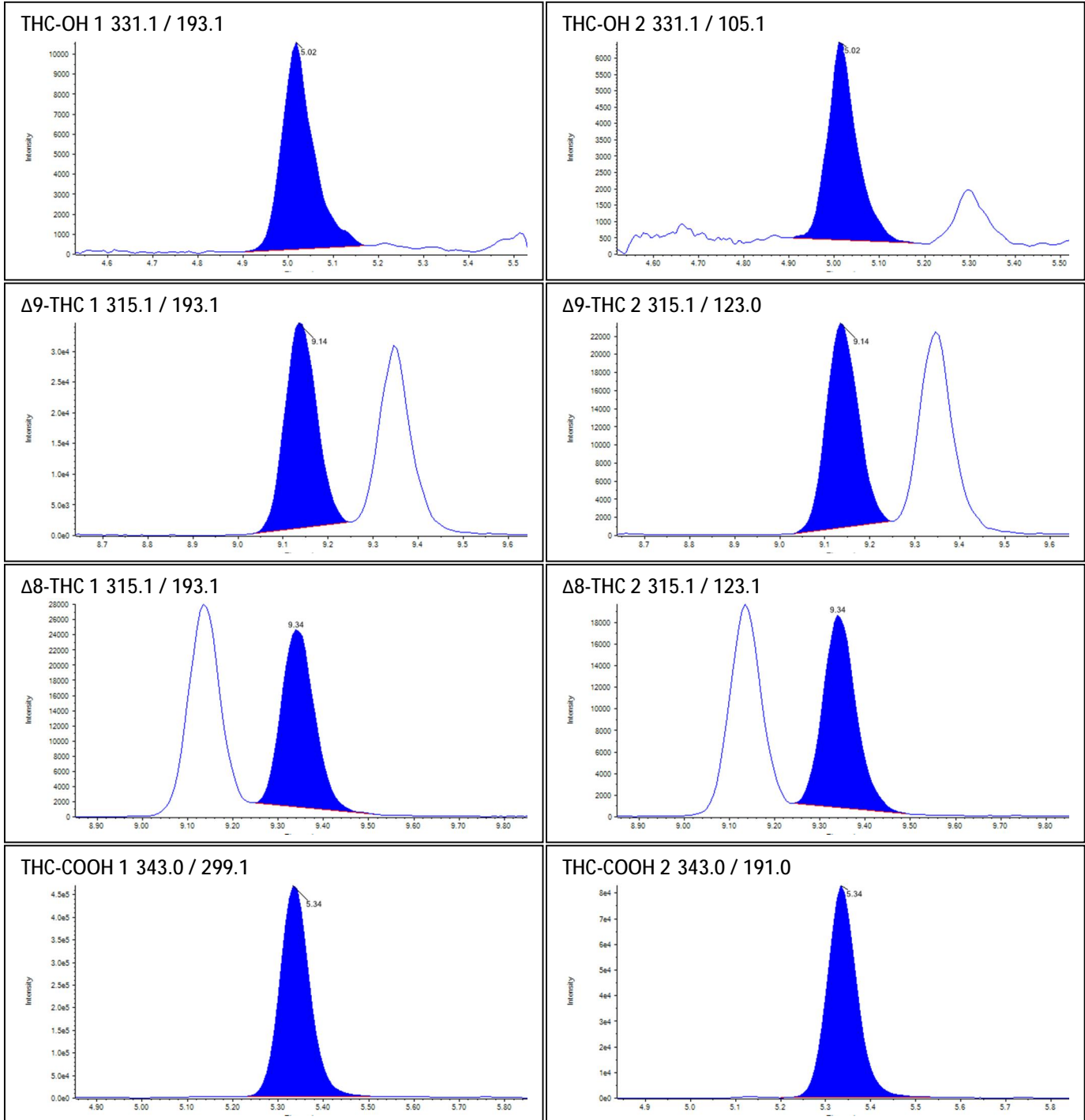


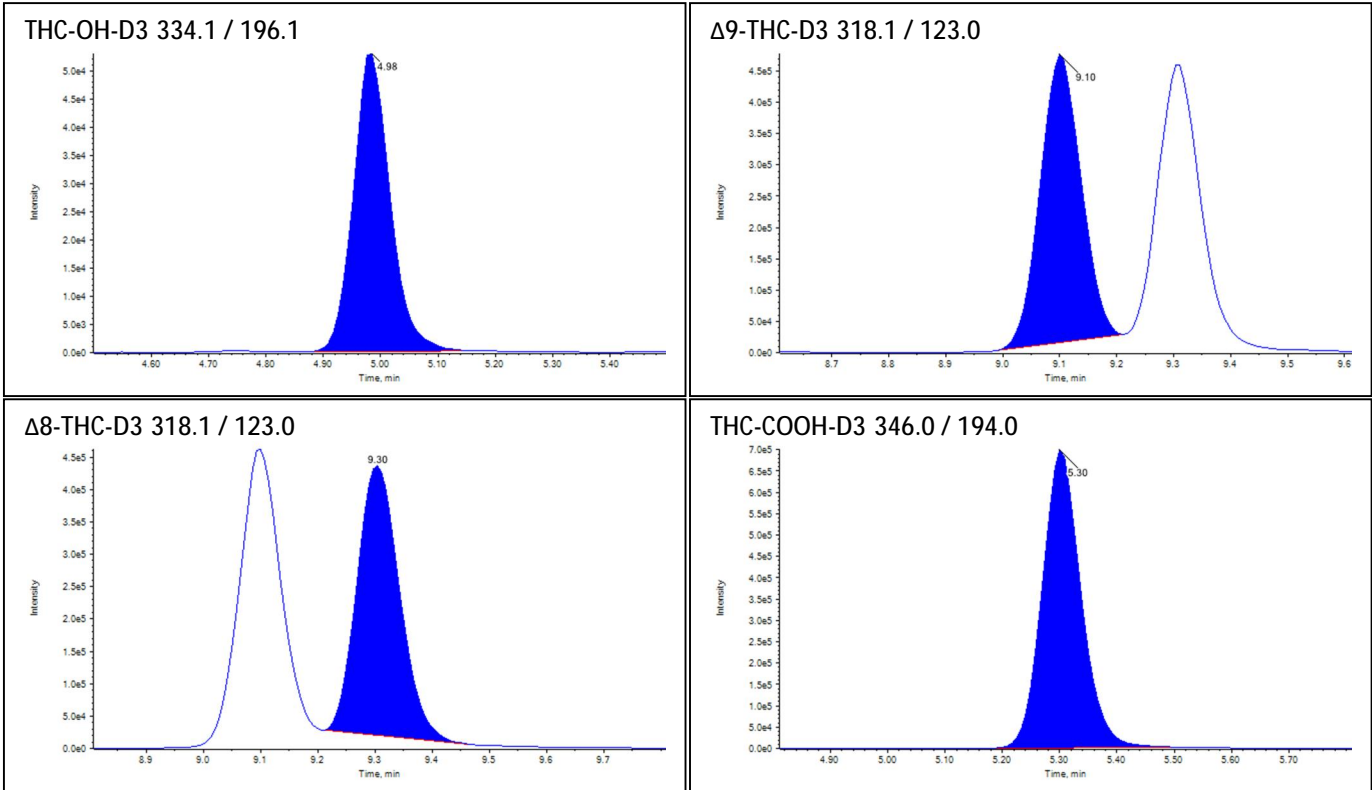
Sample Name: H3



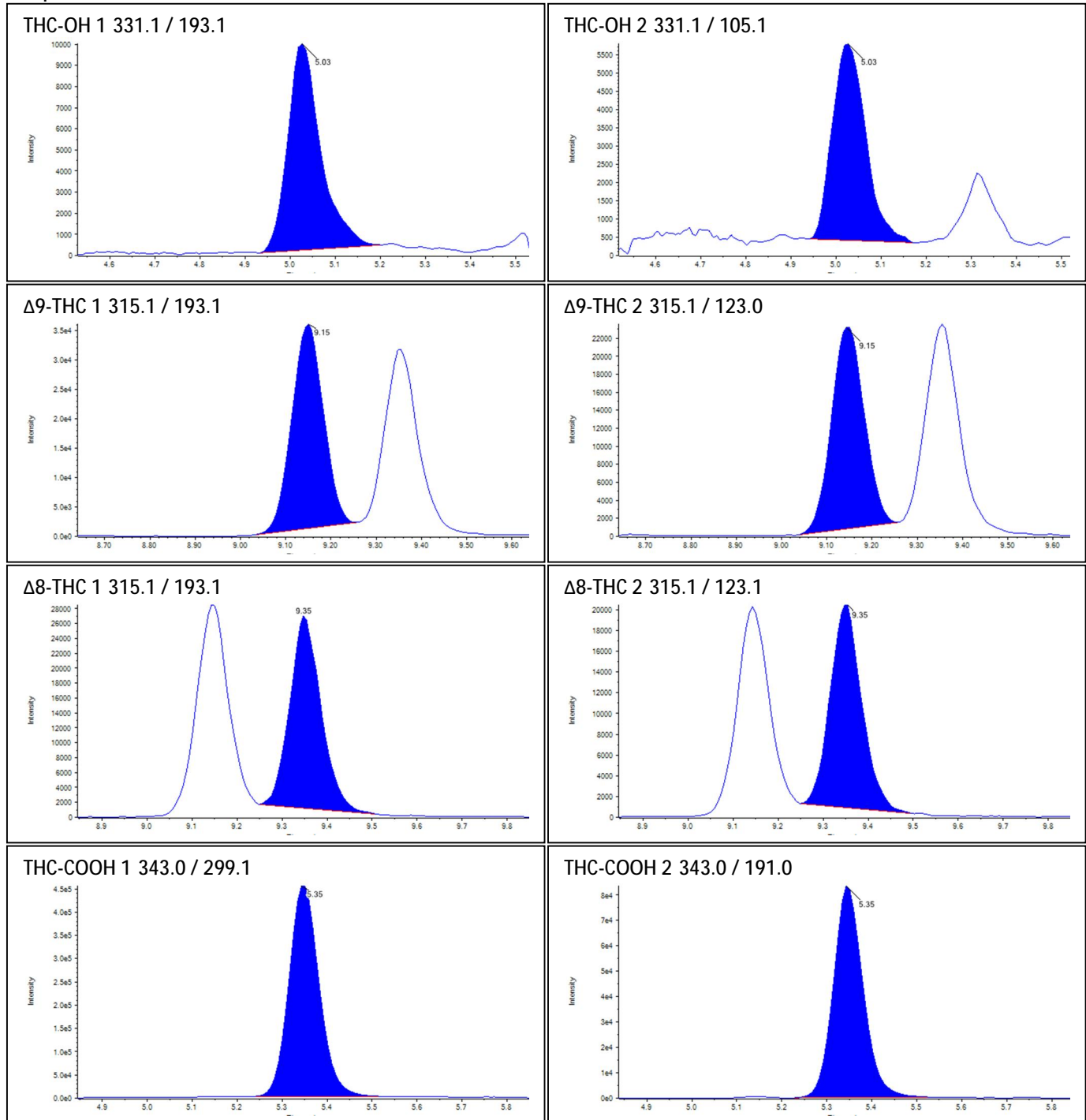


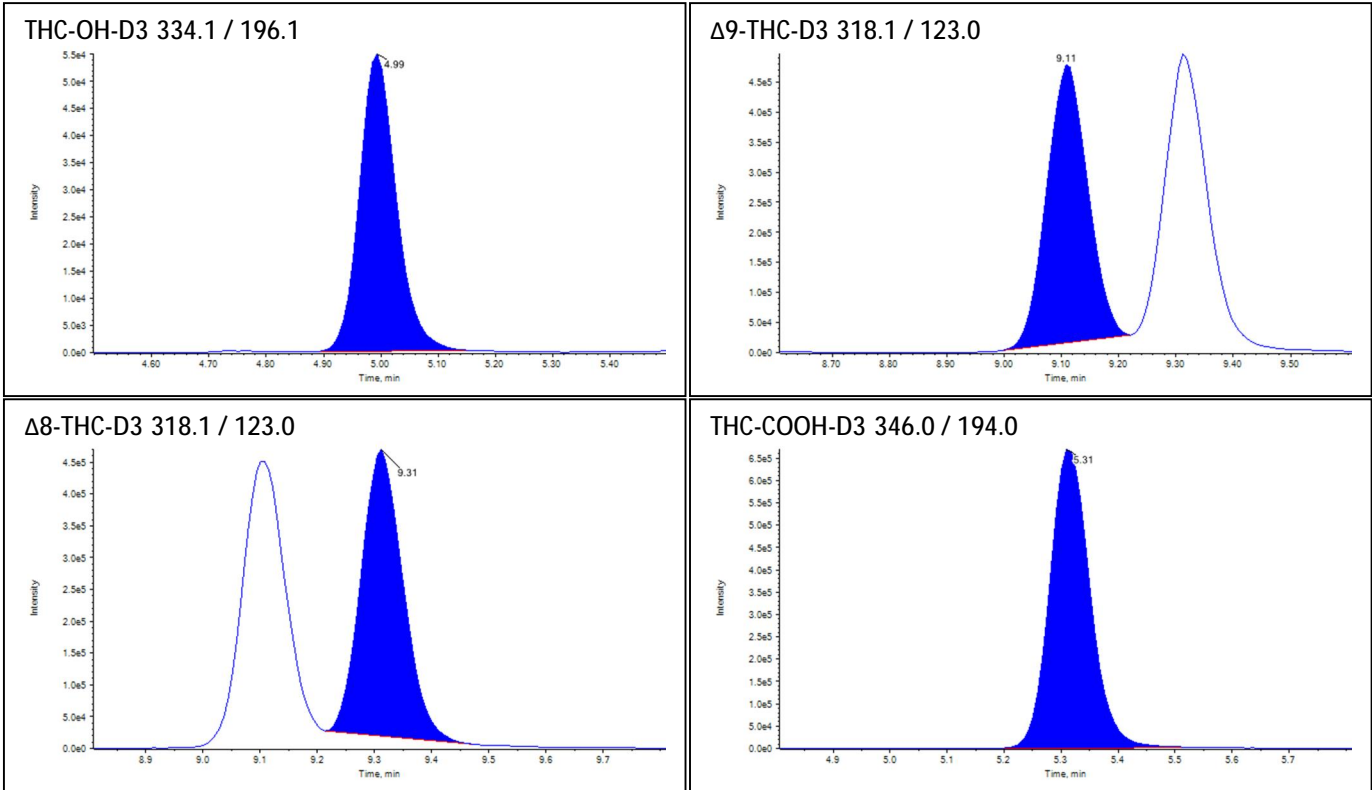
Sample Name: L1



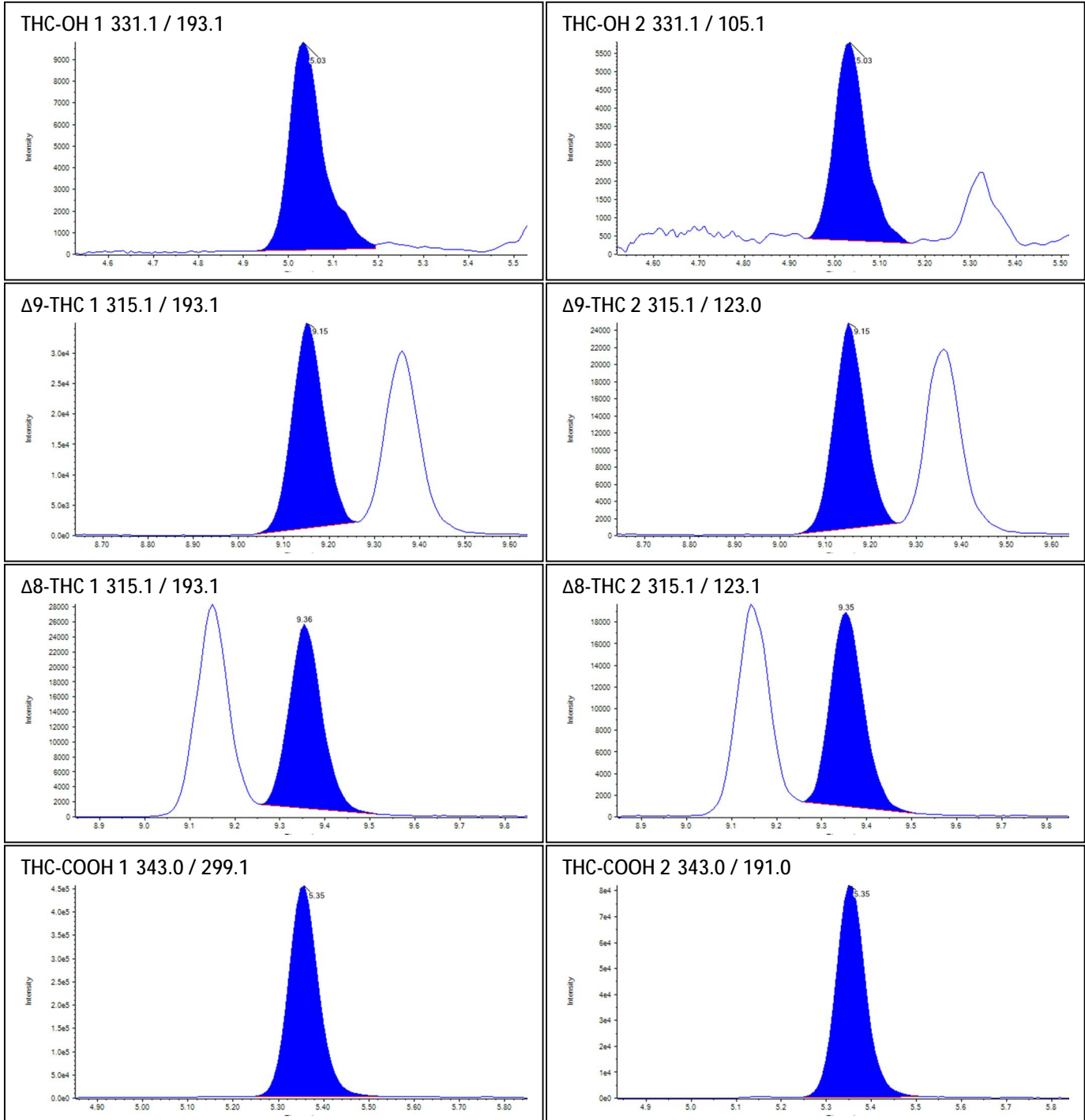


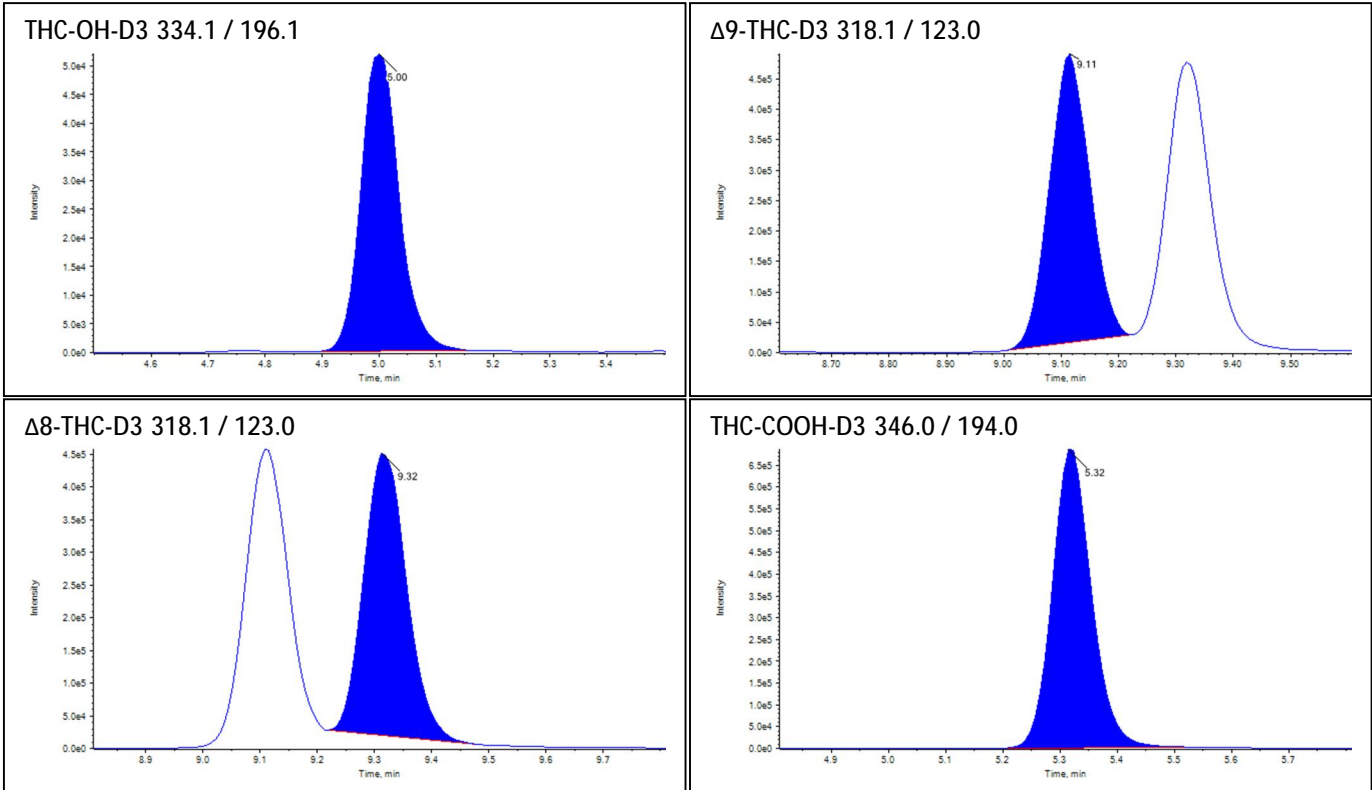
Sample Name: L2



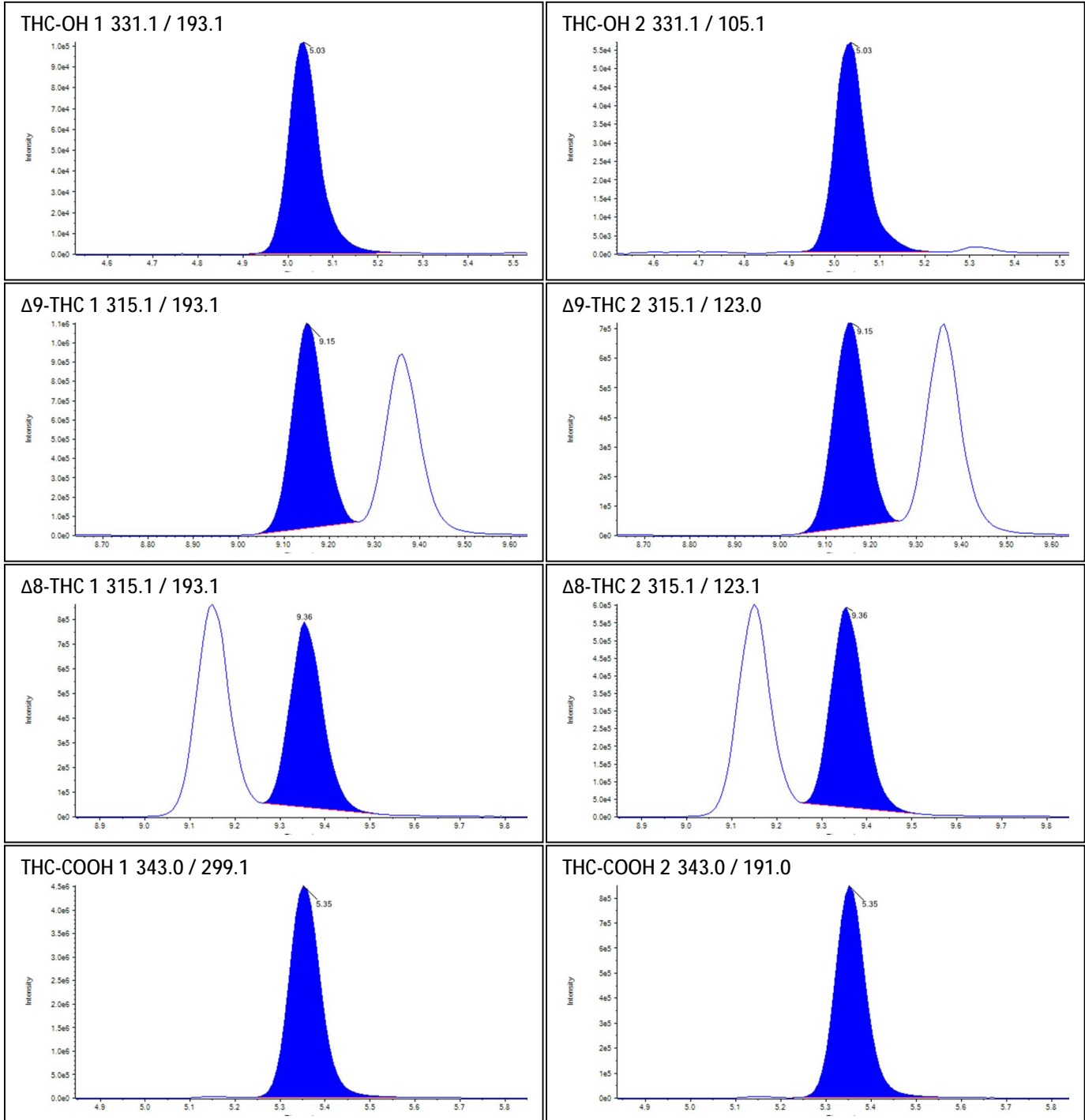


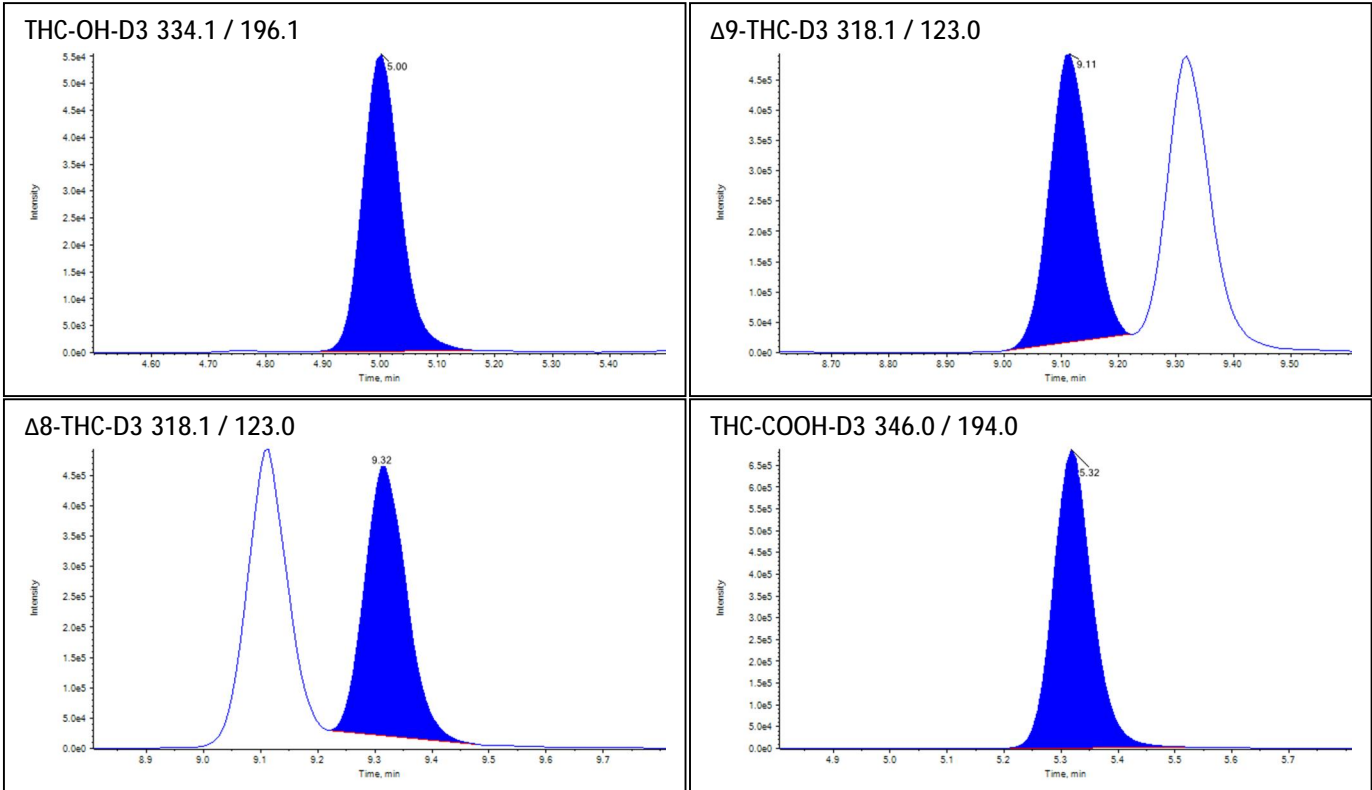
Sample Name: L3



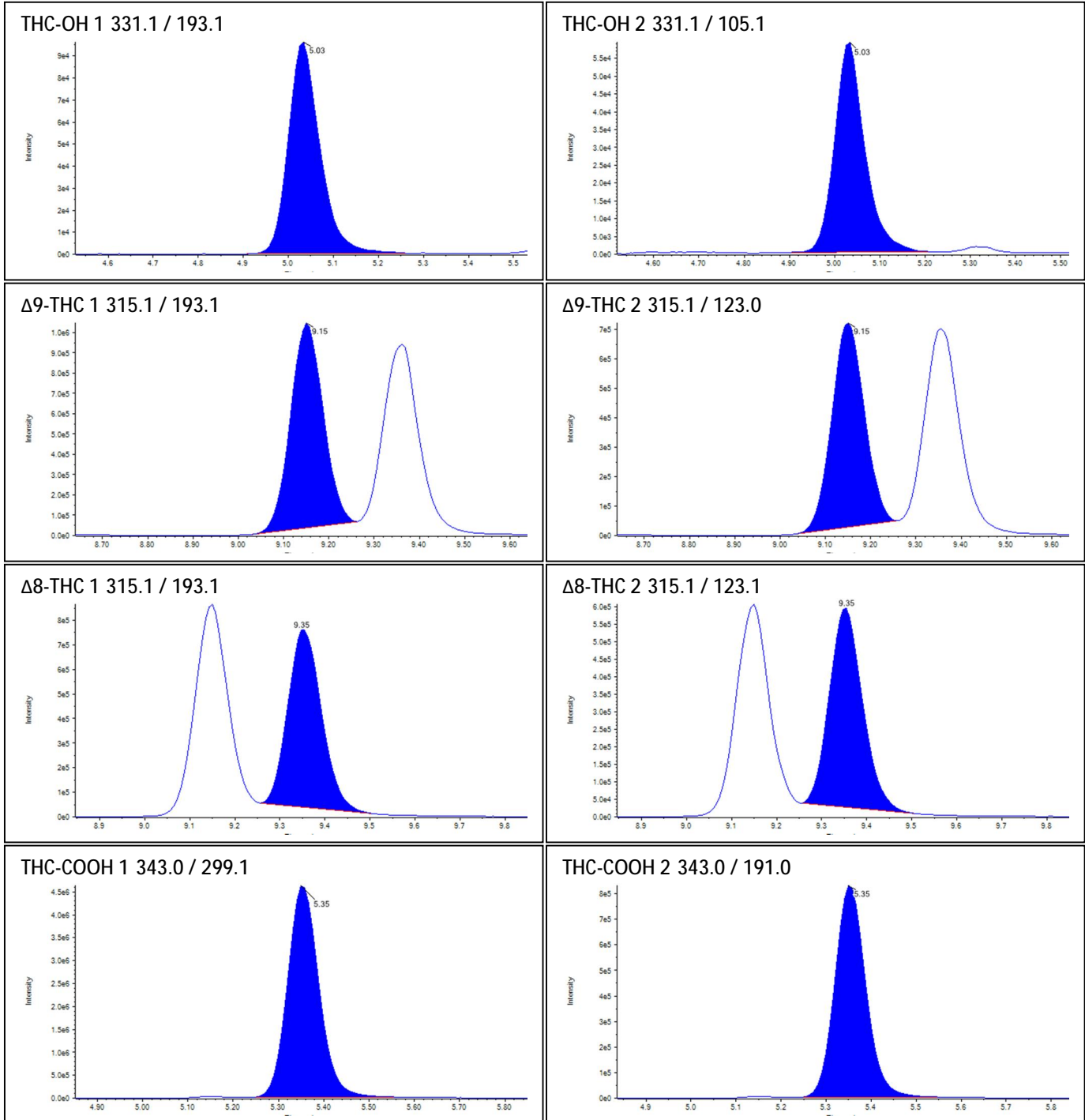


Sample Name: H1

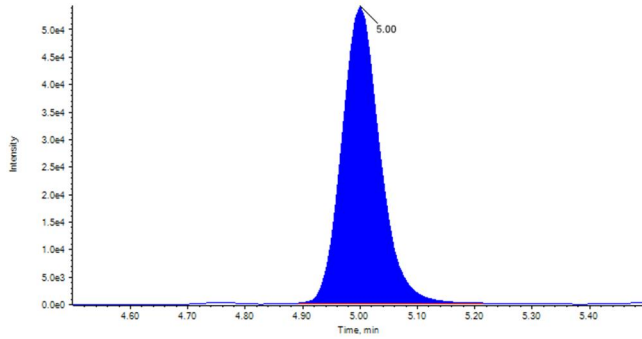




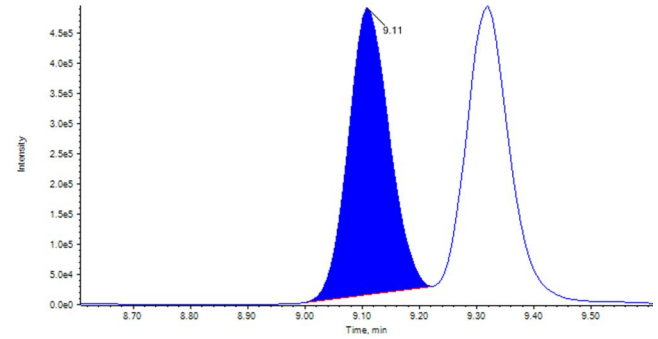
Sample Name: H2



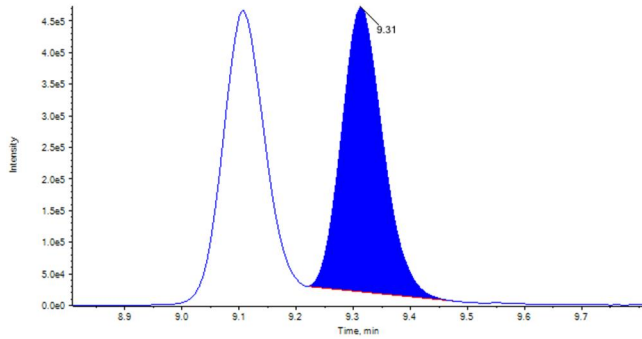
THC-OH-D3 334.1 / 196.1



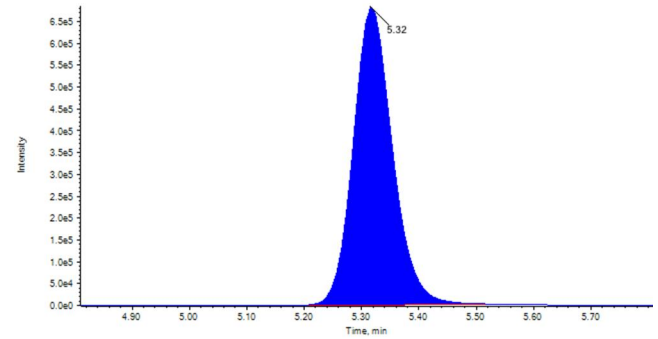
Δ 9-THC-D3 318.1 / 123.0



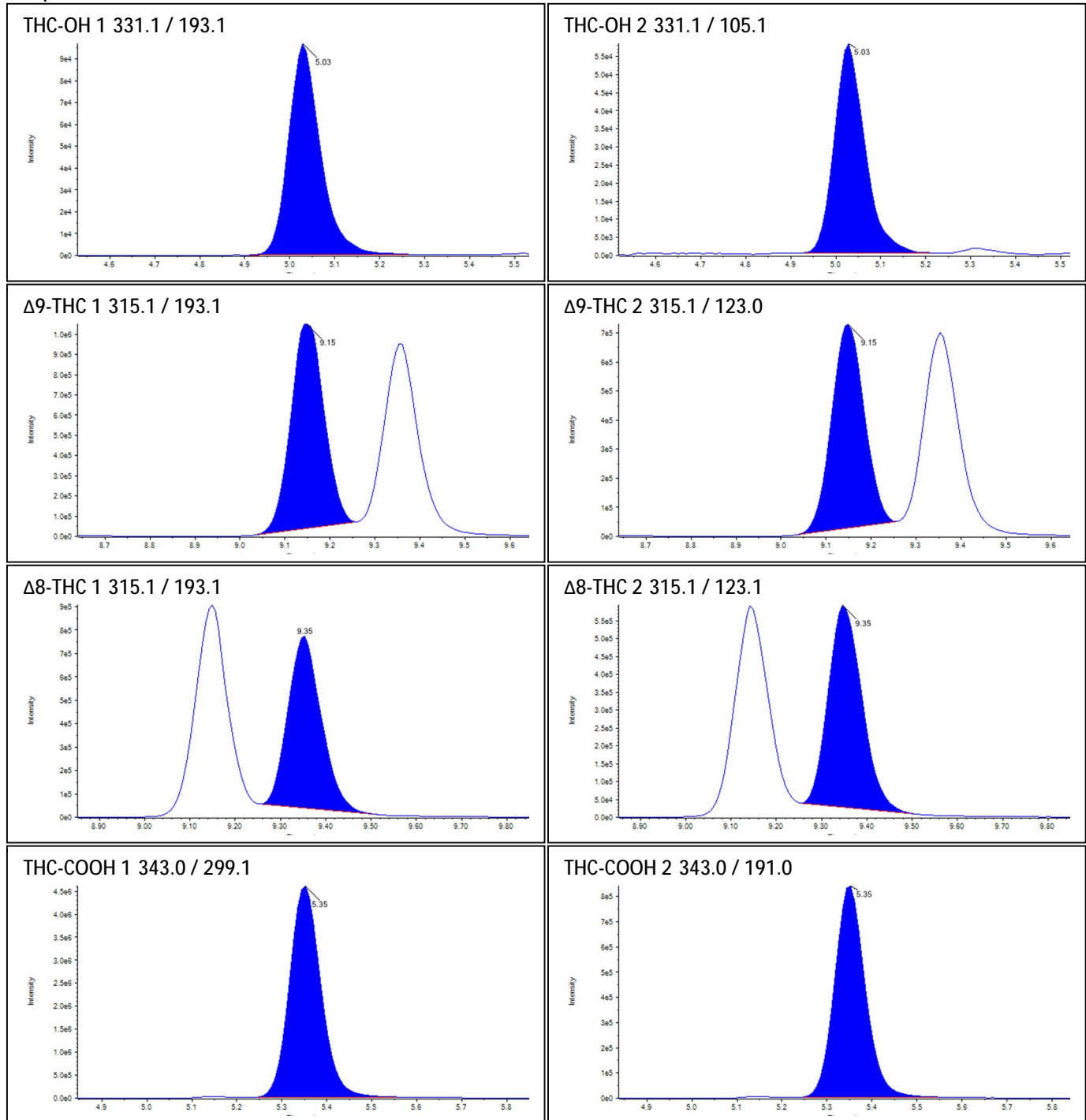
Δ 8-THC-D3 318.1 / 123.0



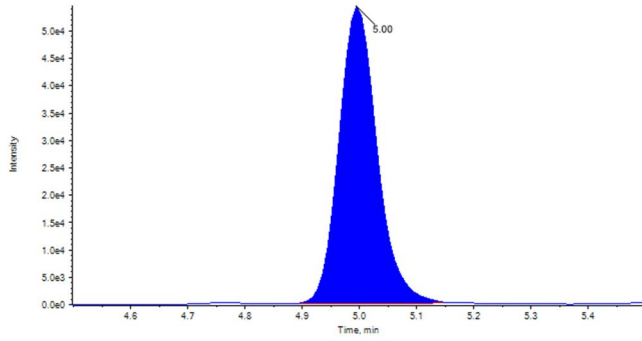
THC-COOH-D3 346.0 / 194.0



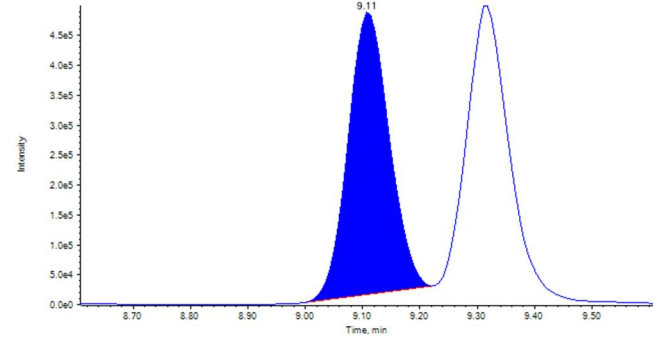
Sample Name: H3



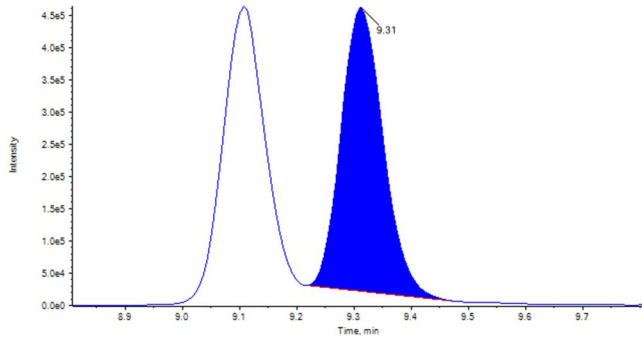
THC-OH-D3 334.1 / 196.1



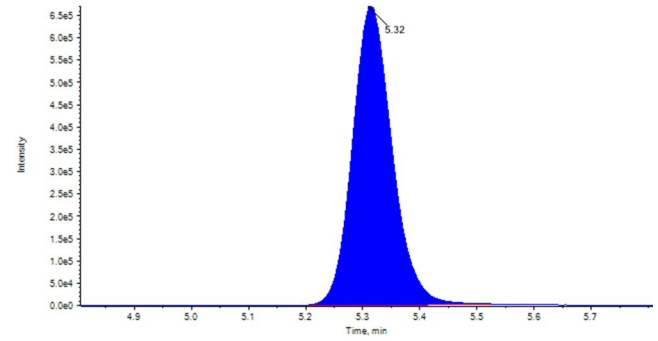
Δ 9-THC-D3 318.1 / 123.0



Δ 8-THC-D3 318.1 / 123.0



THC-COOH-D3 346.0 / 194.0



**FLORIDA AND PROFICIENCY TEST
CHALLENGE SAMPLES**

Cannabinoid Lot Log	
Date	09-23-22
Analyst	SB
Checked tubes	
Sample preparation	
Sample Pipette	007
Blank Blood	GB1
Standards	091422JLG
Controls	091422JLG
Standards/Controls Pipette	064
Internal Standard	091422SB
Internal Standard Pipette	103
0.1 % formic acid in H ₂ O	091622 DMC
Extraction	
SLE Cartridge	820-2-26
MTBE	L322A-4
B: 0.1% formic acid in ACN	082922SB
A: 0.1 % formic acid in H ₂ O	092122DMC
Instrumentation	
A: 0.1 % formic acid in H ₂ O	092122DMC
B: 0.1% formic acid in ACN	091322JLG
Column Serial Number	USC6C17817
Instrument	21-1
Sequence Check:	
Notes:	



Sample Summary

Sample Name	Standard 1
Acquisition Date/Time	2022-09-24T00:43:43
Acquisition Method	THC.dam
Batch Name	20220923SB Florida.dab
Results Table	20220923SB Florida
Sample Type	Standard
File Name	20220923SB.wiff
Position	32
Sample Comment	

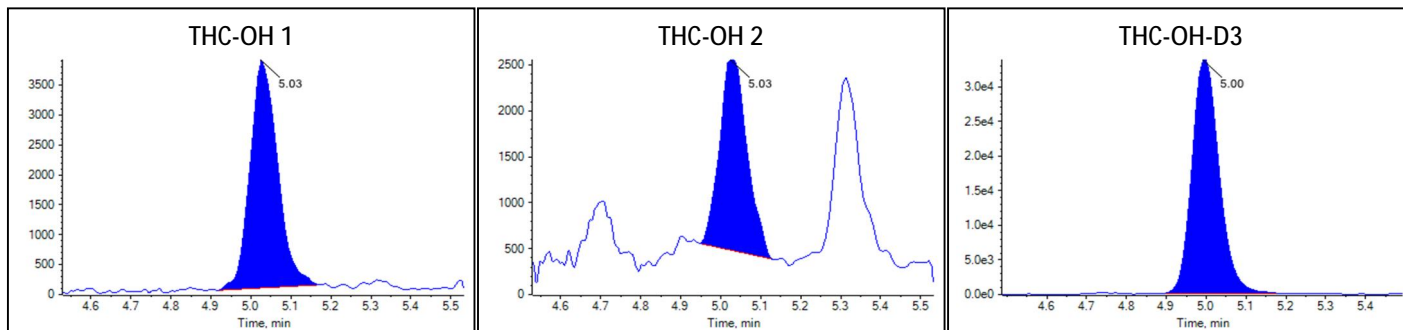
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.1131	1.02		
Δ 9-THC	0.0274	1.05		
Δ 8-THC	0.0205	1.09		
THC-COOH	0.5059	4.81		

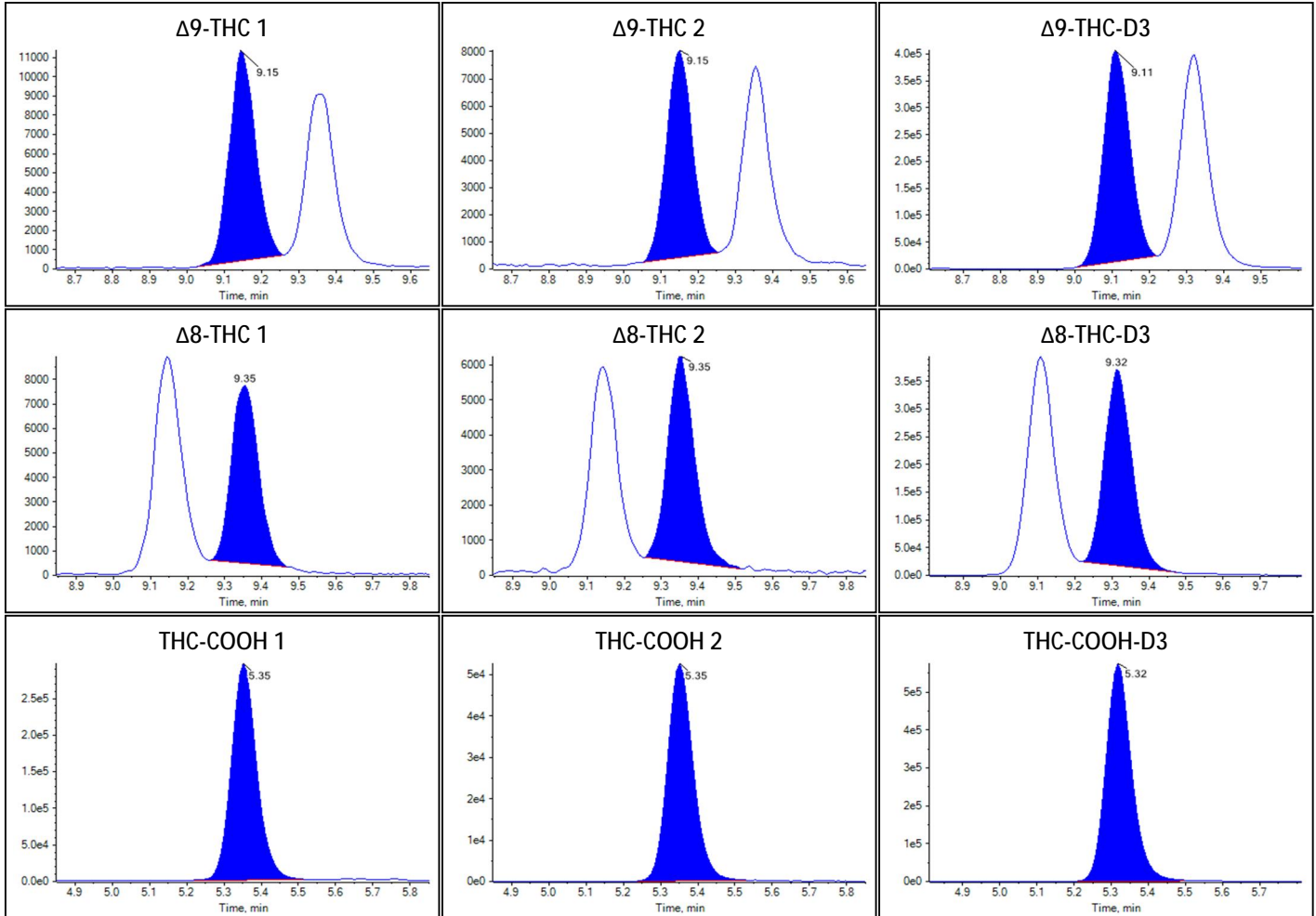
Identification Summary: Standard 1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.551(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.689(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.804(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.180(Not calculated)

Peak Review: Standard 1



Peak Review: Standard 1





Sample Summary

Sample Name	Standard 2
Acquisition Date/Time	2022-09-24T00:57:46
Acquisition Method	THC.dam
Batch Name	20220923SB Florida.dab
Results Table	20220923SB Florida
Sample Type	Standard
File Name	20220923SB.wiff
Position	33
Sample Comment	

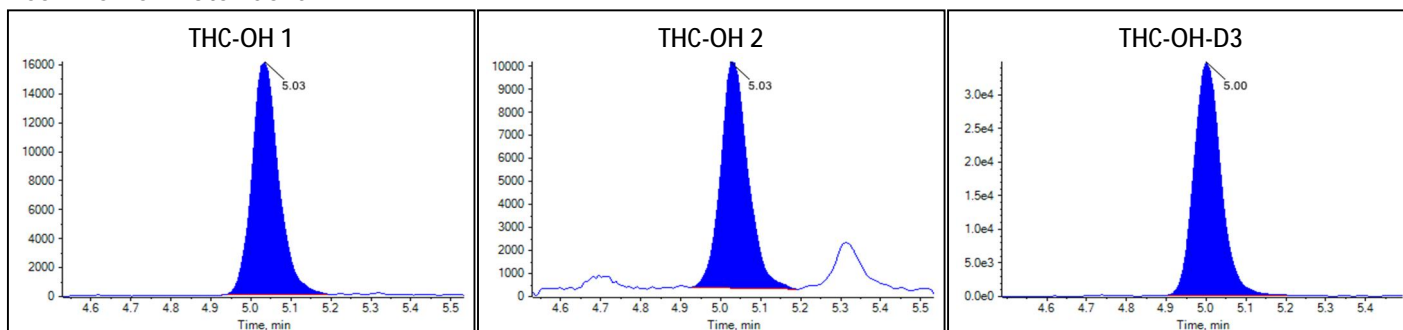
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.4540	3.95		
Δ^9 -THC	0.1361	4.80		
Δ^8 -THC	0.1084	4.67		
THC-COOH	1.0319	10.10		

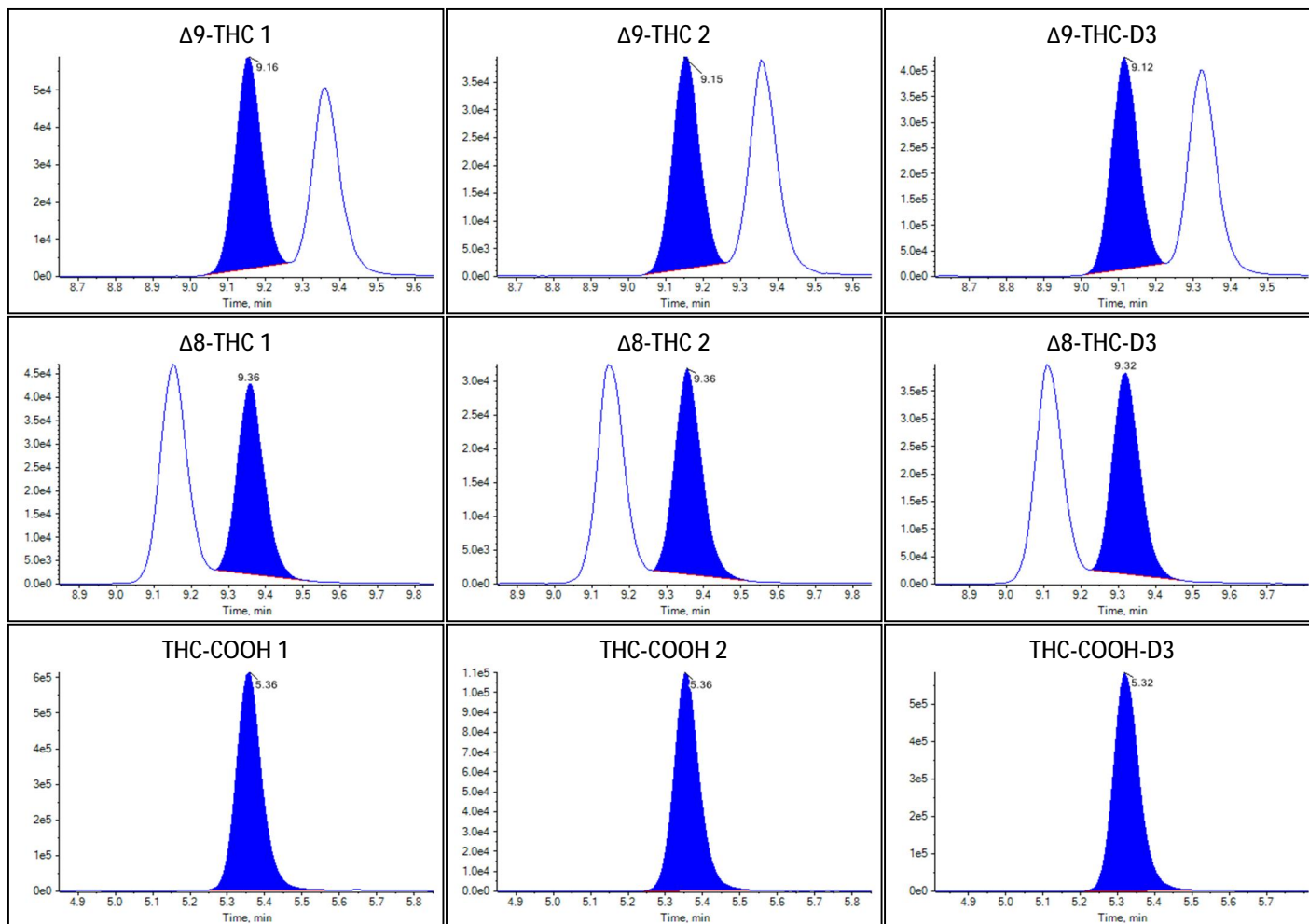
Identification Summary: Standard 2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.628(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Not calculated)	0.693(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Not calculated)	0.756(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.179(Not calculated)

Peak Review: Standard 2



Peak Review: Standard 2





Sample Summary

Sample Name	Standard 3
Acquisition Date/Time	2022-09-24T01:11:52
Acquisition Method	THC.dam
Batch Name	20220923SB Florida.dab
Results Table	20220923SB Florida
Sample Type	Standard
File Name	20220923SB.wiff
Position	34
Sample Comment	

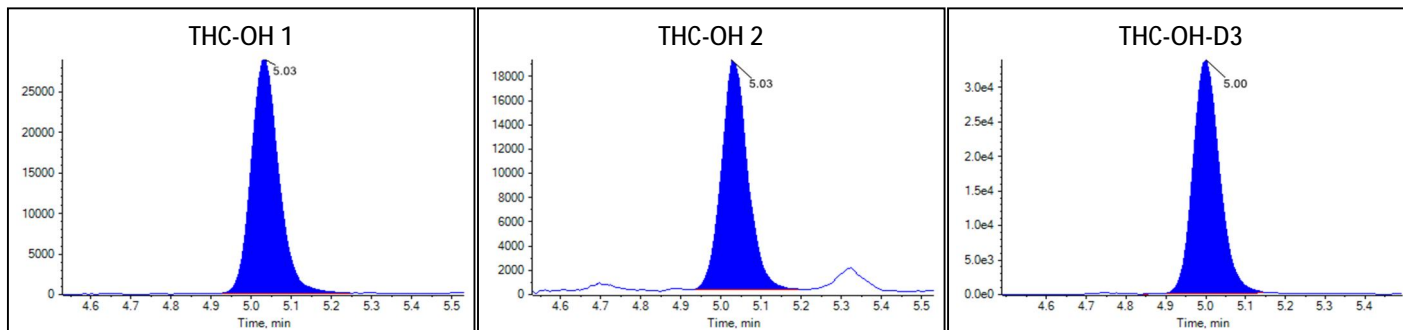
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.8795	7.61		
Δ 9-THC	0.8312	29.20		
Δ 8-THC	0.6420	27.76		
THC-COOH	2.5799	25.66		

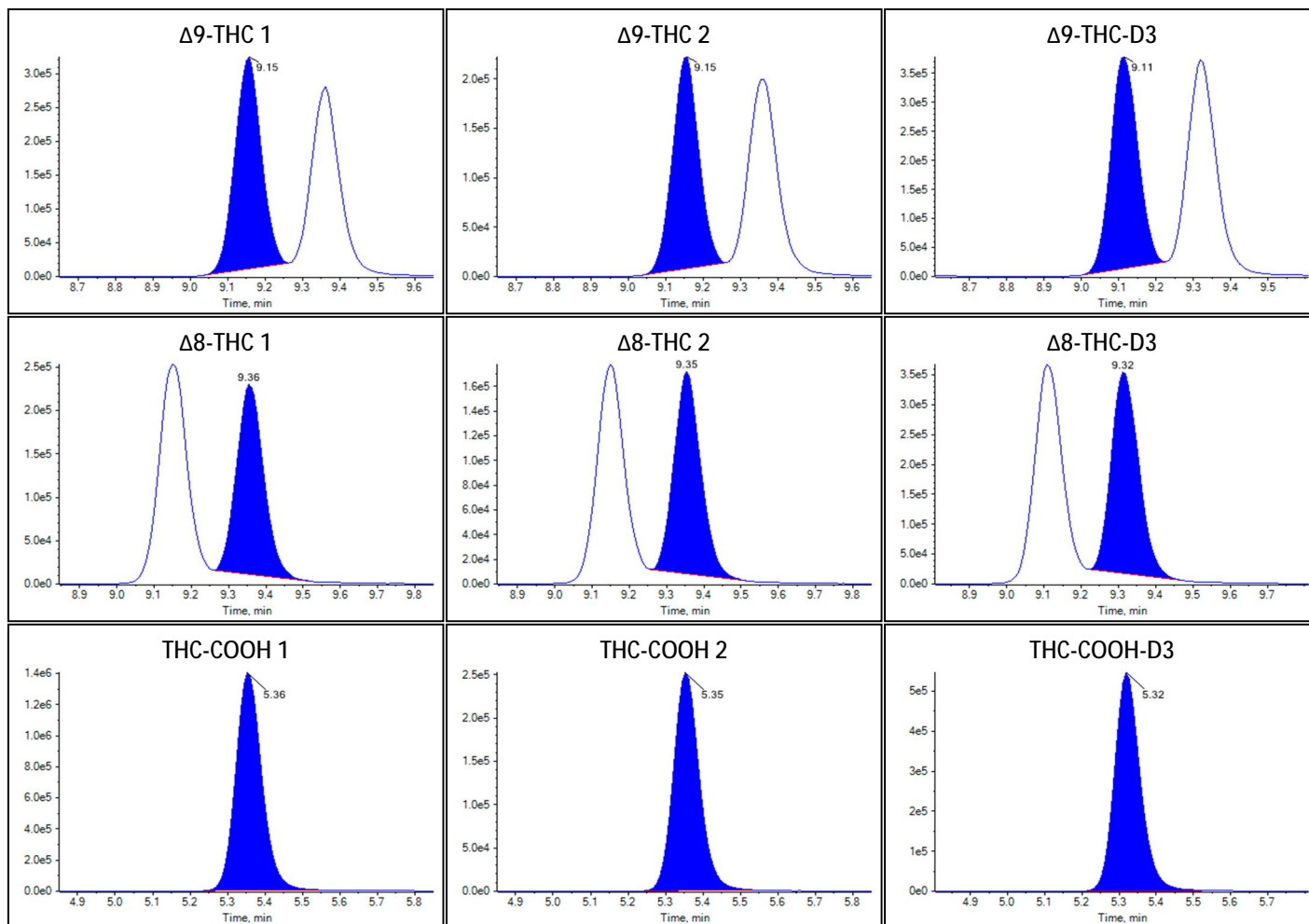
Identification Summary: Standard 3

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.625(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.681(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.736(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.178(Not calculated)

Peak Review: Standard 3



Peak Review: Standard 3





Sample Summary

Sample Name	Standard 4
Acquisition Date/Time	2022-09-24T01:25:54
Acquisition Method	THC.dam
Batch Name	20220923SB Florida.dab
Results Table	20220923SB Florida
Sample Type	Standard
File Name	20220923SB.wiff
Position	35
Sample Comment	

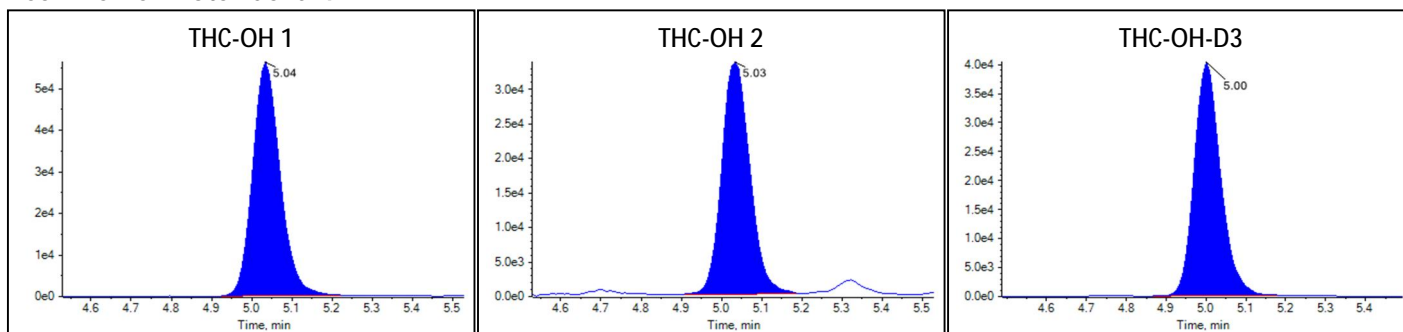
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.4402	12.44		
Δ^9 -THC	1.3882	49.30		
Δ^8 -THC	1.0894	49.46		
THC-COOH	5.0397	50.39		

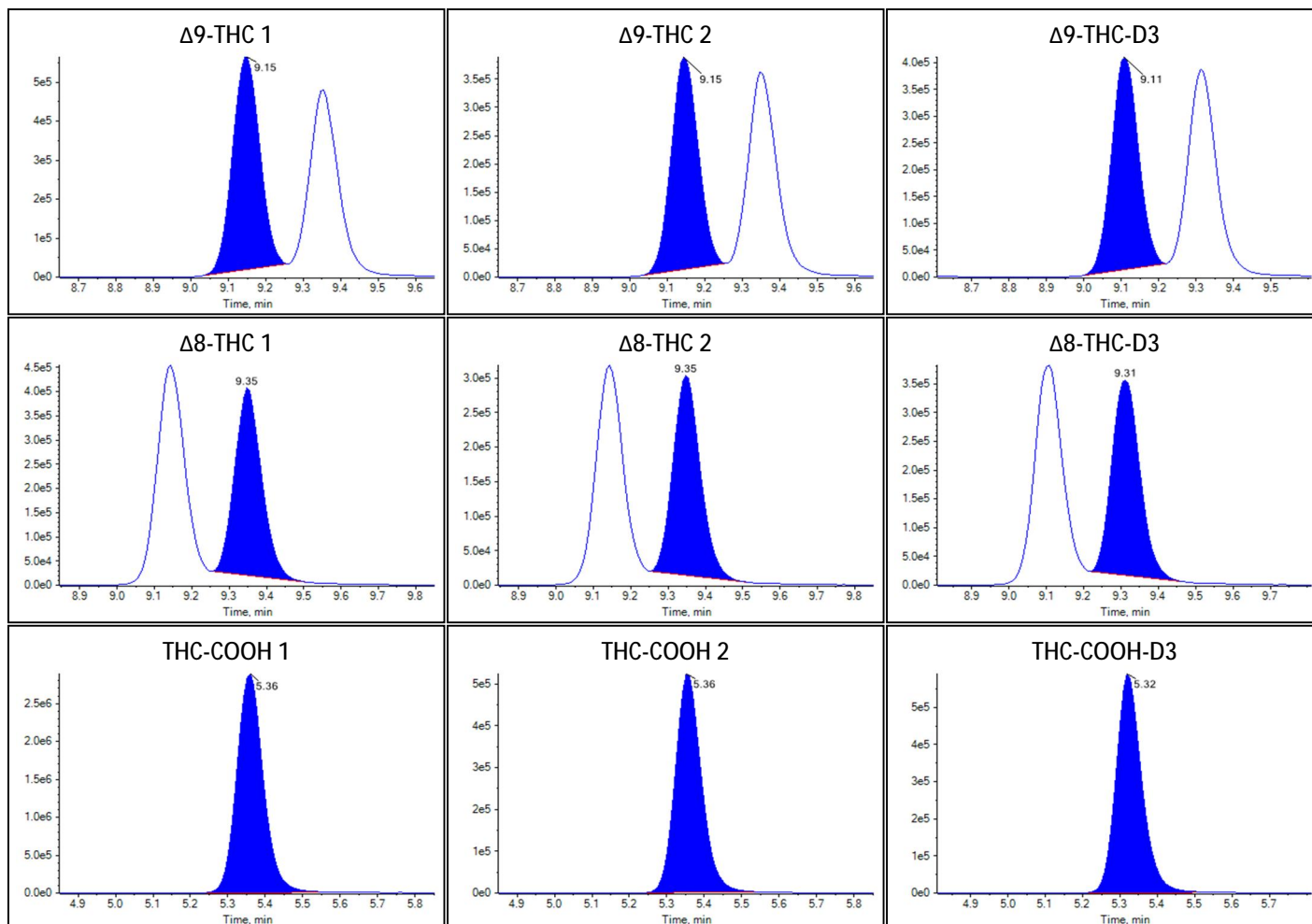
Identification Summary: Standard 4

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.616(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Not calculated)	0.681(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Not calculated)	0.761(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.178(Not calculated)

Peak Review: Standard 4



Peak Review: Standard 4





Sample Summary

Sample Name	Standard 5
Acquisition Date/Time	2022-09-24T01:39:57
Acquisition Method	THC.dam
Batch Name	20220923SB Florida.dab
Results Table	20220923SB Florida
Sample Type	Standard
File Name	20220923SB.wiff
Position	36
Sample Comment	

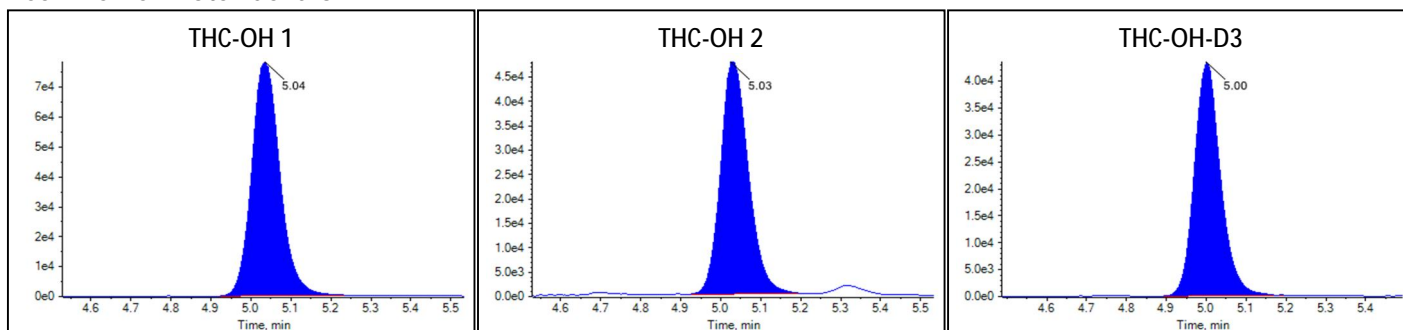
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.9420	16.75		
Δ^9 -THC	2.0452	73.67		
Δ^8 -THC	1.6141	78.98		
THC-COOH	7.5754	75.89		

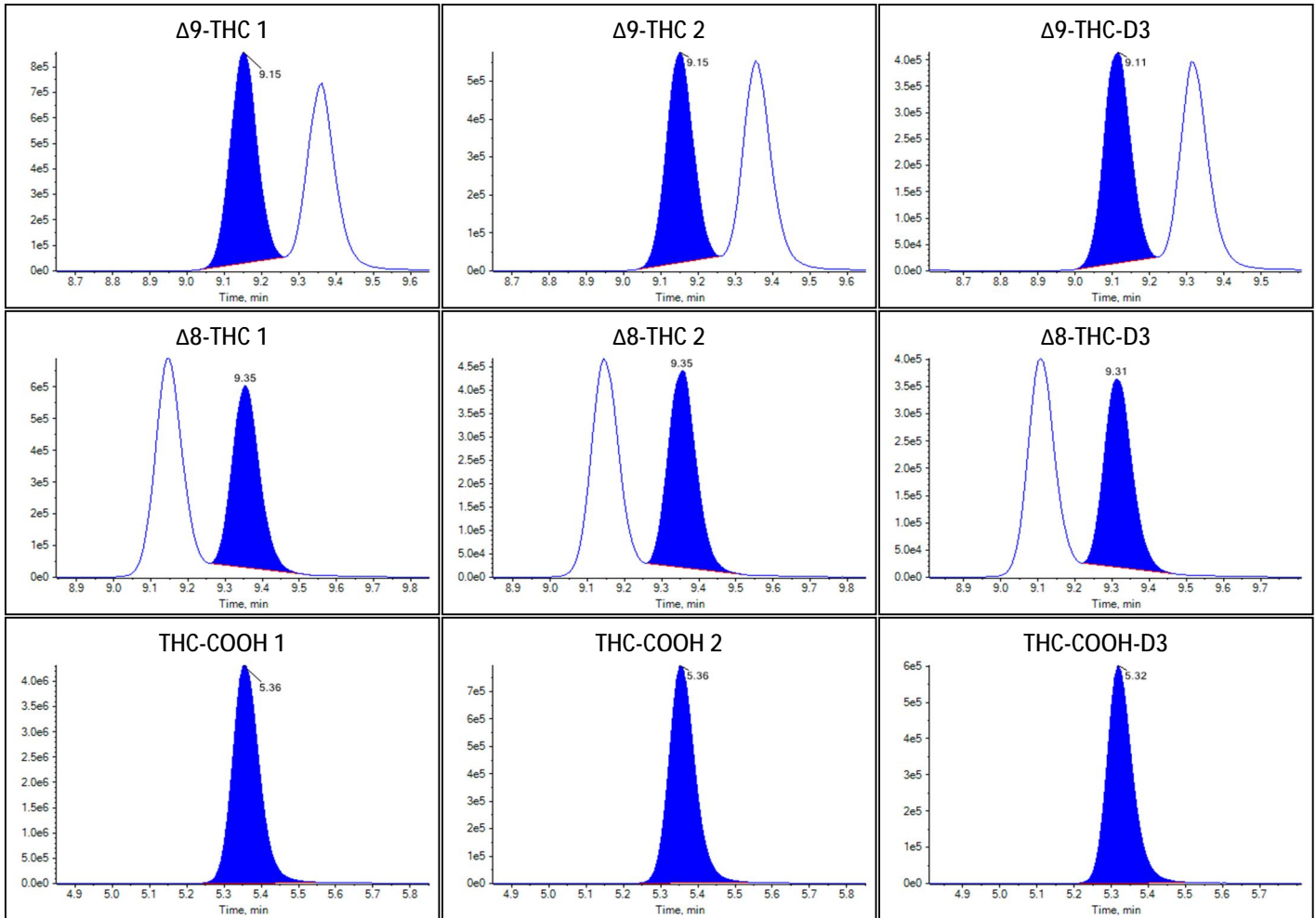
Identification Summary: Standard 5

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.603(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Not calculated)	0.672(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Not calculated)	0.755(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.178(Not calculated)

Peak Review: Standard 5



Peak Review: Standard 5





Sample Summary

Sample Name	Standard 6
Acquisition Date/Time	2022-09-24T01:53:59
Acquisition Method	THC.dam
Batch Name	20220923SB Florida.dab
Results Table	20220923SB Florida
Sample Type	Standard
File Name	20220923SB.wiff
Position	37
Sample Comment	

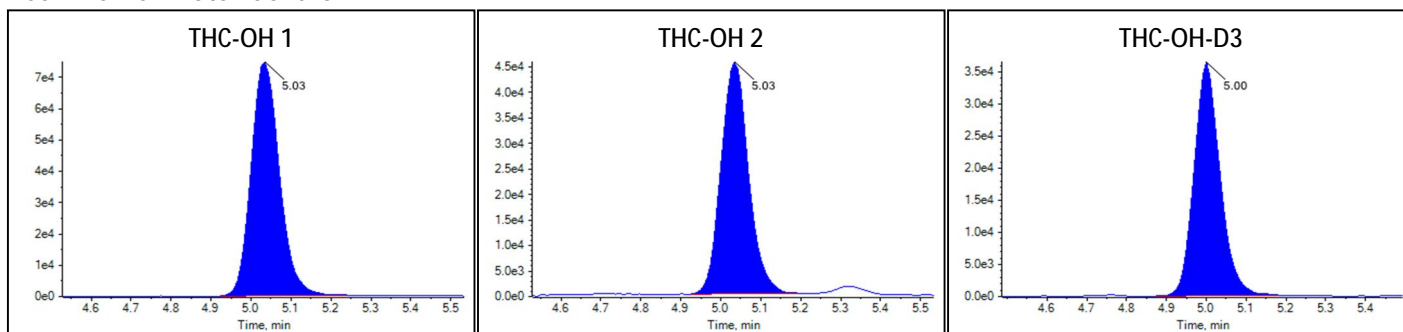
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.2302	19.23		
Δ^9 -THC	2.6803	97.98		
Δ^8 -THC	1.8444	94.03		
THC-COOH	9.7891	98.14		

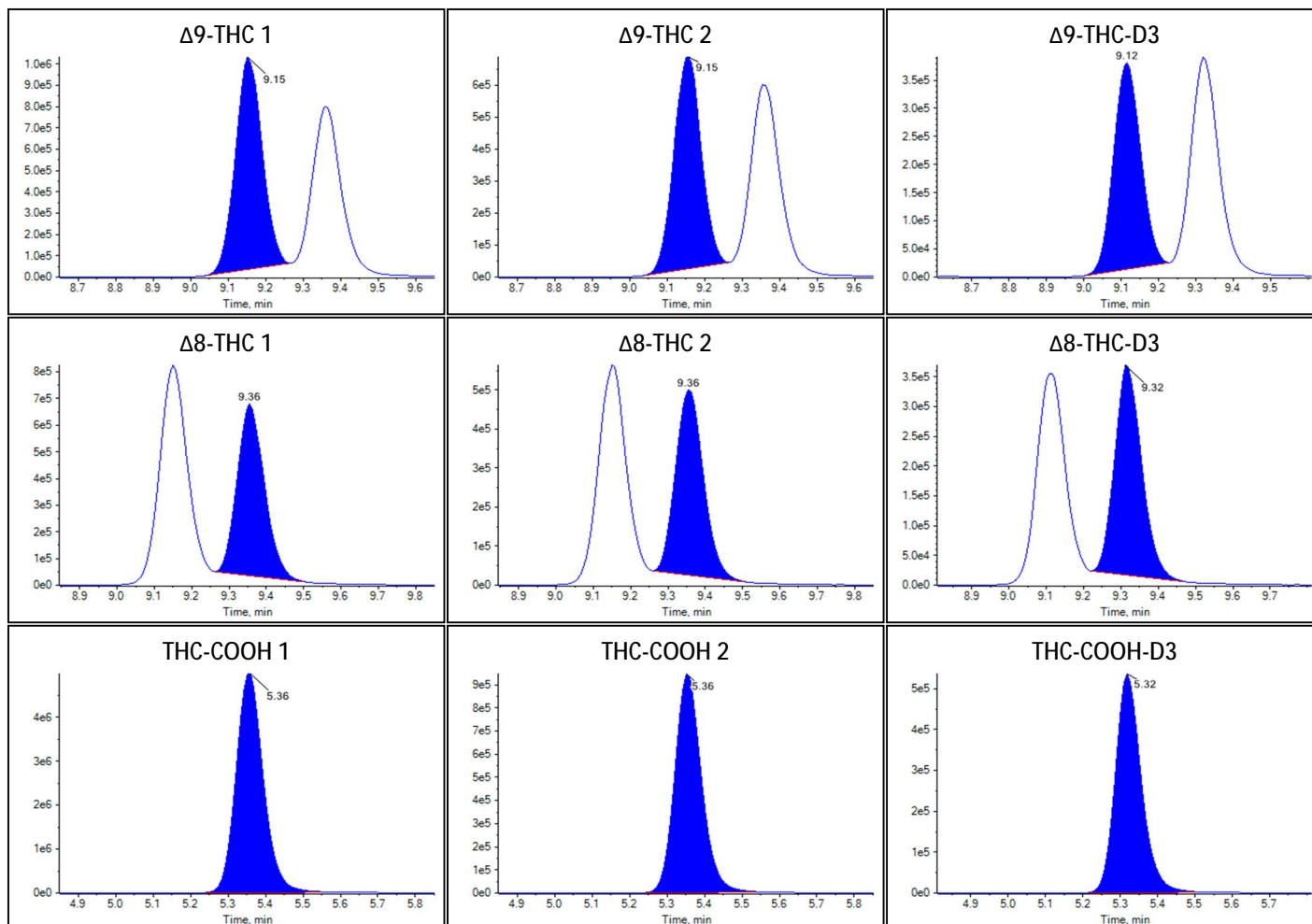
Identification Summary: Standard 6

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.591(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Not calculated)	0.681(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Not calculated)	0.756(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.185(Not calculated)

Peak Review: Standard 6



Peak Review: Standard 6





Sample Summary

Sample Name	Negative
Acquisition Date/Time	2022-09-24T02:08:04
Acquisition Method	THC.dam
Batch Name	20220923SB Florida.dab
Results Table	20220923SB Florida
Sample Type	Quality Control
File Name	20220923SB.wiff
Position	38
Sample Comment	

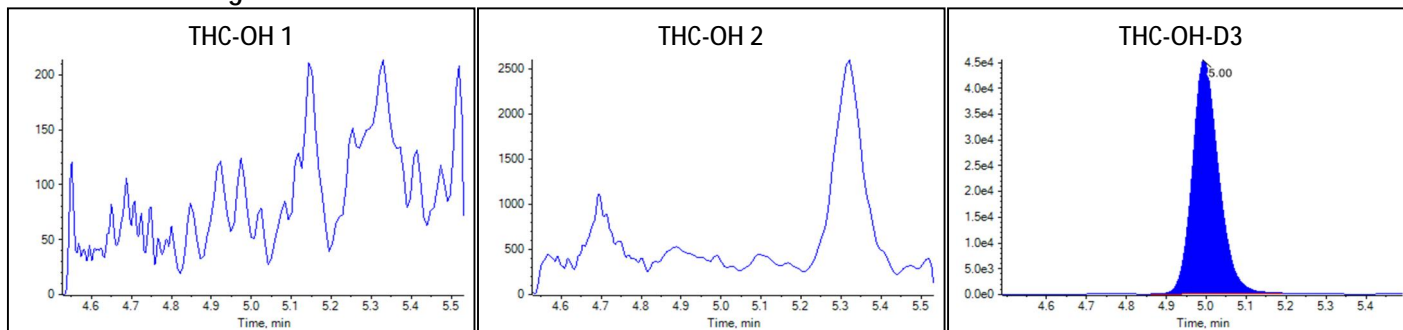
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	N/A	N/A		

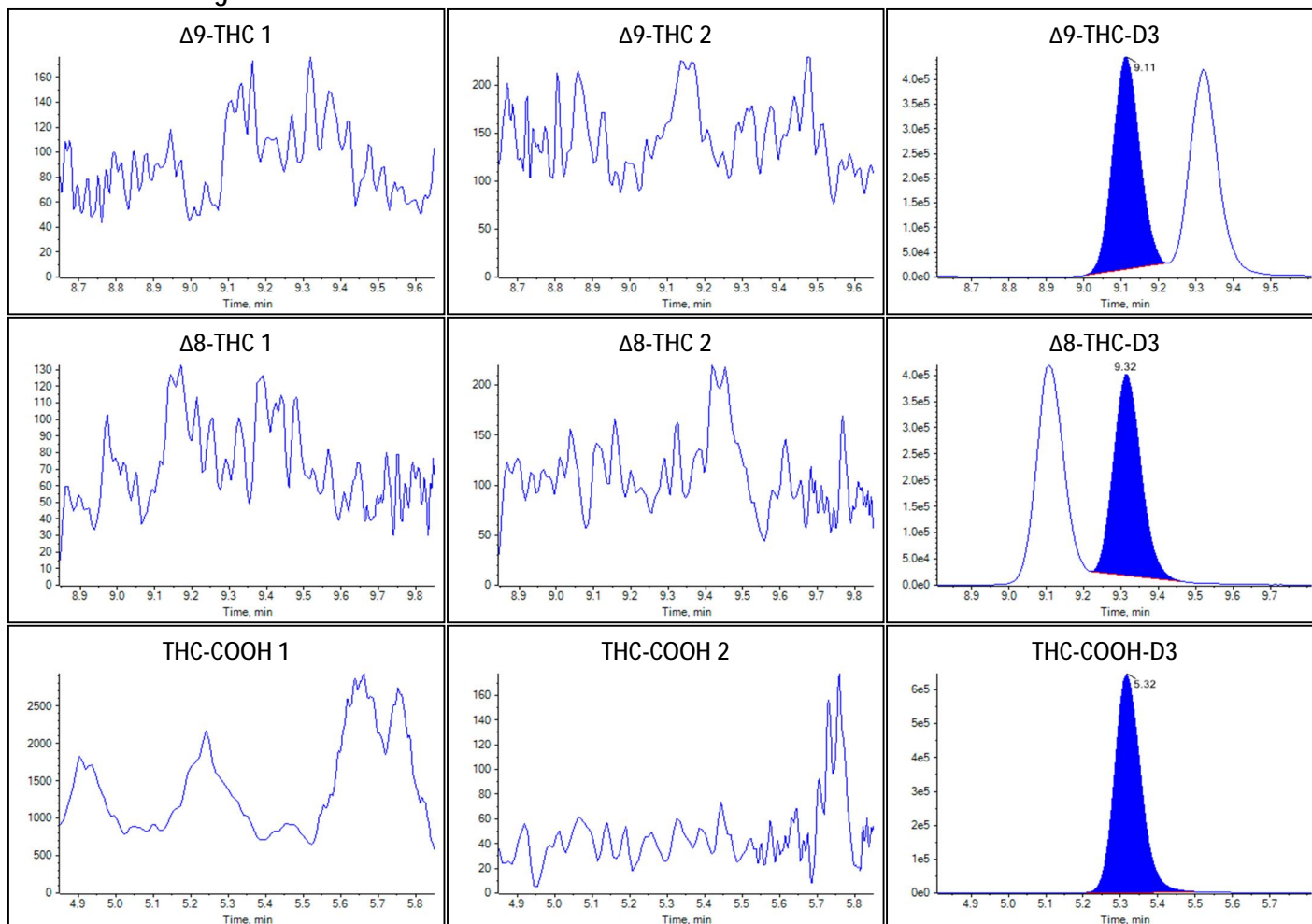
Identification Summary: Negative

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	N/A(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	N/A(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	N/A(Not calculated)
THC-COOH 1	343.0 / 299.1	N/A(Not calculated)	
THC-COOH 2	343.0 / 191.0	N/A(Not calculated)	N/A(Not calculated)

Peak Review: Negative



Peak Review: Negative





Sample Summary

Sample Name	Medium Control
Acquisition Date/Time	2022-09-24T02:22:13
Acquisition Method	THC.dam
Batch Name	20220923SB Florida.dab
Results Table	20220923SB Florida
Sample Type	Quality Control
File Name	20220923SB.wiff
Position	39
Sample Comment	

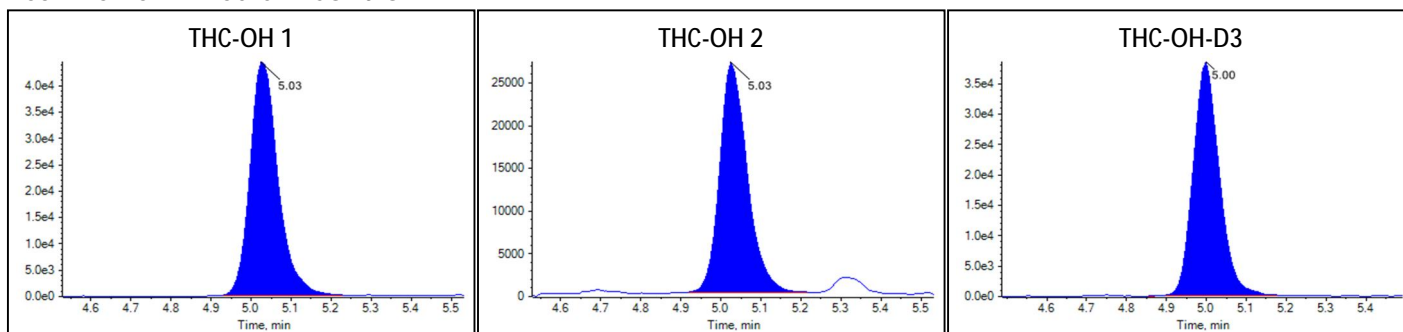
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.2403	10.72		
Δ^9 -THC	1.1954	42.29		
Δ^8 -THC	0.9387	41.86		
THC-COOH	4.3718	43.68		

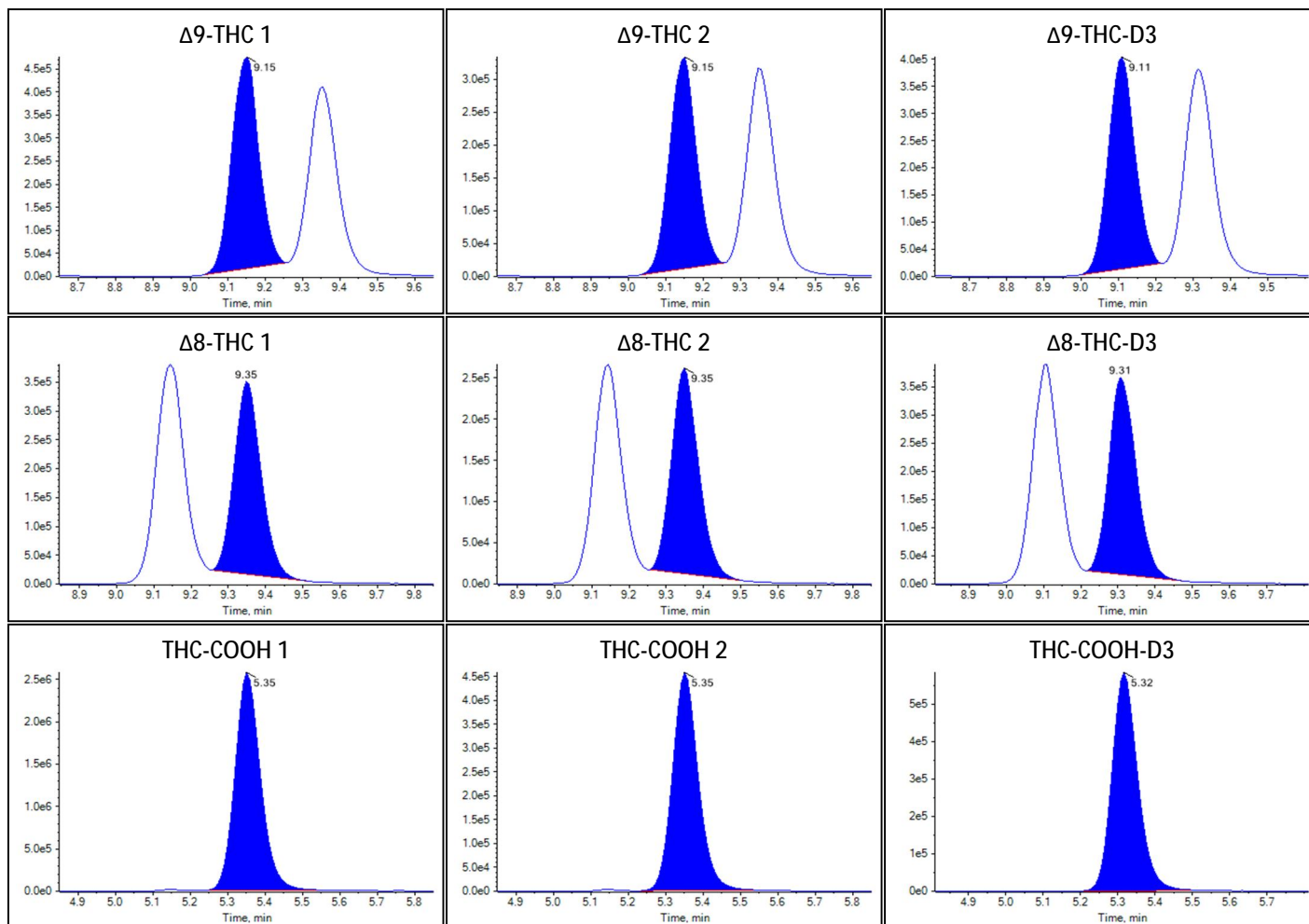
Identification Summary: Medium Control

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.601(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Not calculated)	0.694(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Not calculated)	0.751(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.178(Not calculated)

Peak Review: Medium Control



Peak Review: Medium Control





Sample Summary

Sample Name	5uL injection STD 1
Acquisition Date/Time	2022-09-24T02:36:15
Acquisition Method	THC.dam
Batch Name	20220923SB Florida.dab
Results Table	20220923SB Florida
Sample Type	Unknown
File Name	20220923SB.wiff
Position	32
Sample Comment	

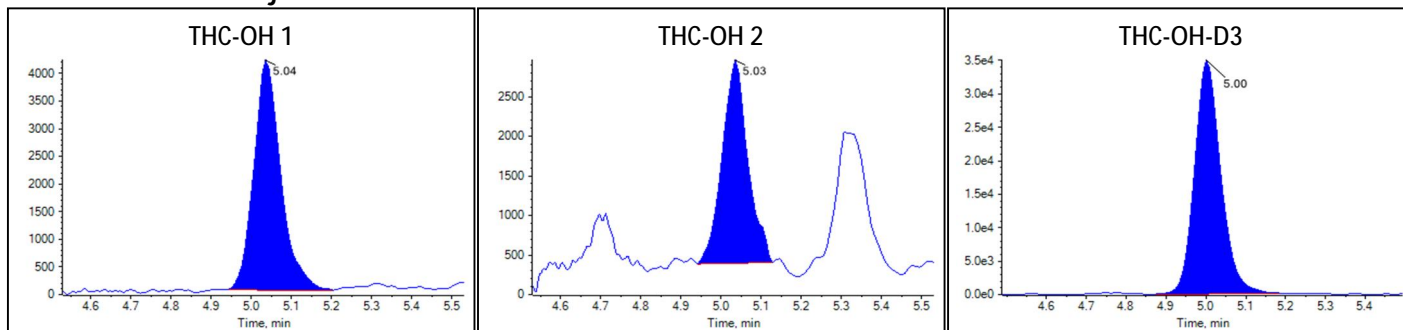
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.1211	1.09		
Δ 9-THC	0.0268	1.03		
Δ 8-THC	0.0216	1.13		
THC-COOH	0.5118	4.87		

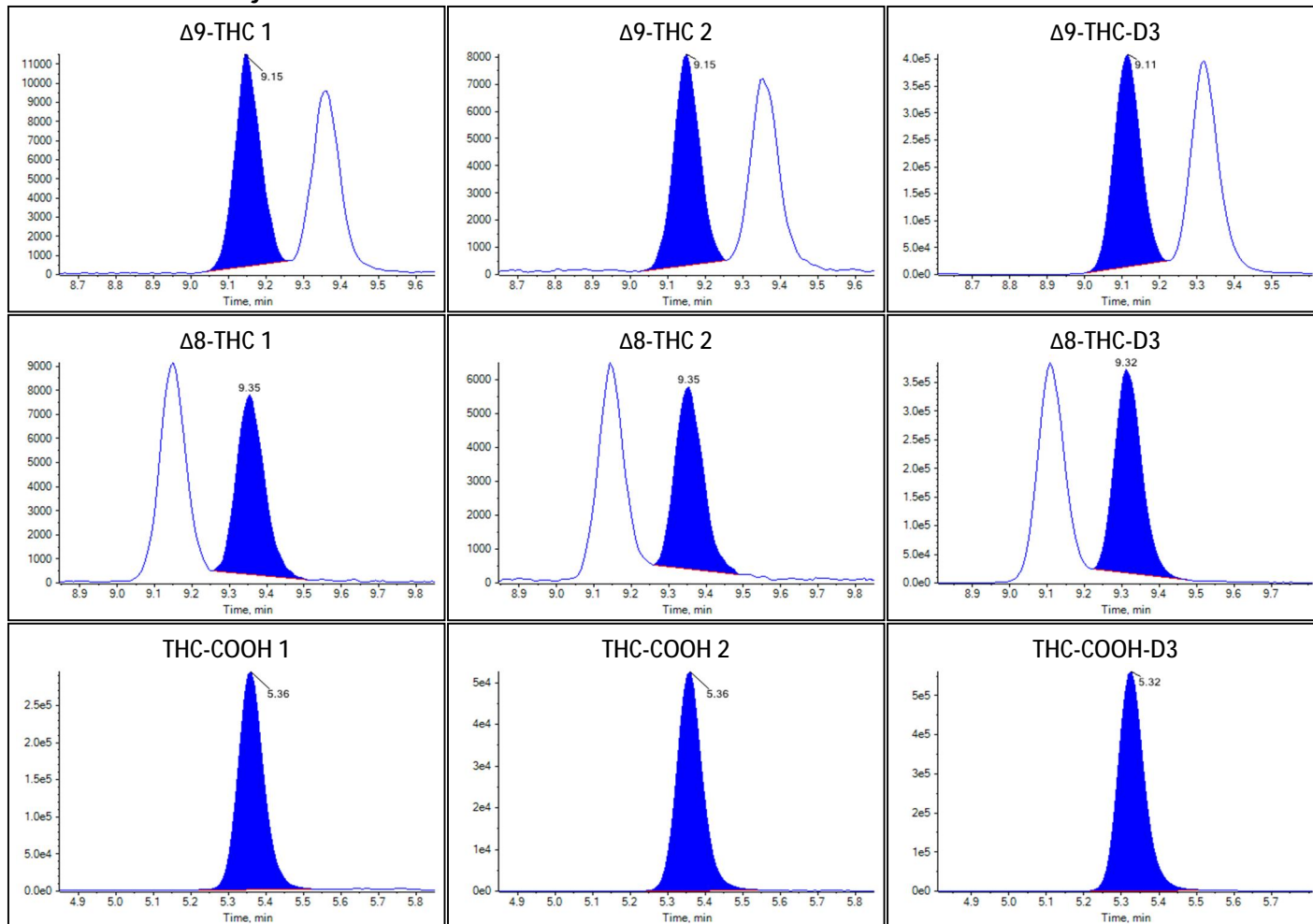
Identification Summary: 5uL injection STD 1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.588(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.716(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.725(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.179(Not calculated)

Peak Review: 5uL injection STD 1



Peak Review: 5uL injection STD 1





Sample Summary

Sample Name	F1
Acquisition Date/Time	2022-09-24T02:50:18
Acquisition Method	THC.dam
Batch Name	20220923SB Florida.dab
Results Table	20220923SB Florida
Sample Type	Unknown
File Name	20220923SB.wiff
Position	40
Sample Comment	

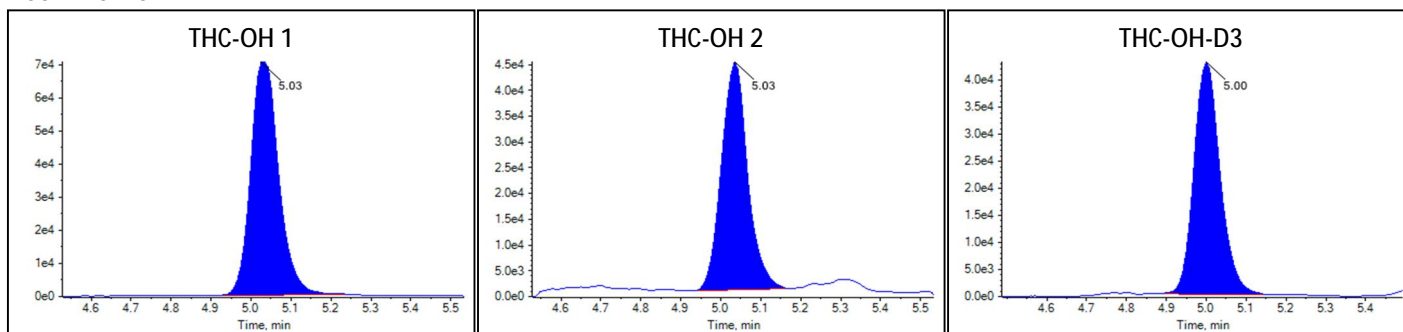
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.7582	15.17		
Δ^9 -THC	0.1483	5.22		
Δ^8 -THC	N/A	N/A		
THC-COOH	29.1136	292.43		

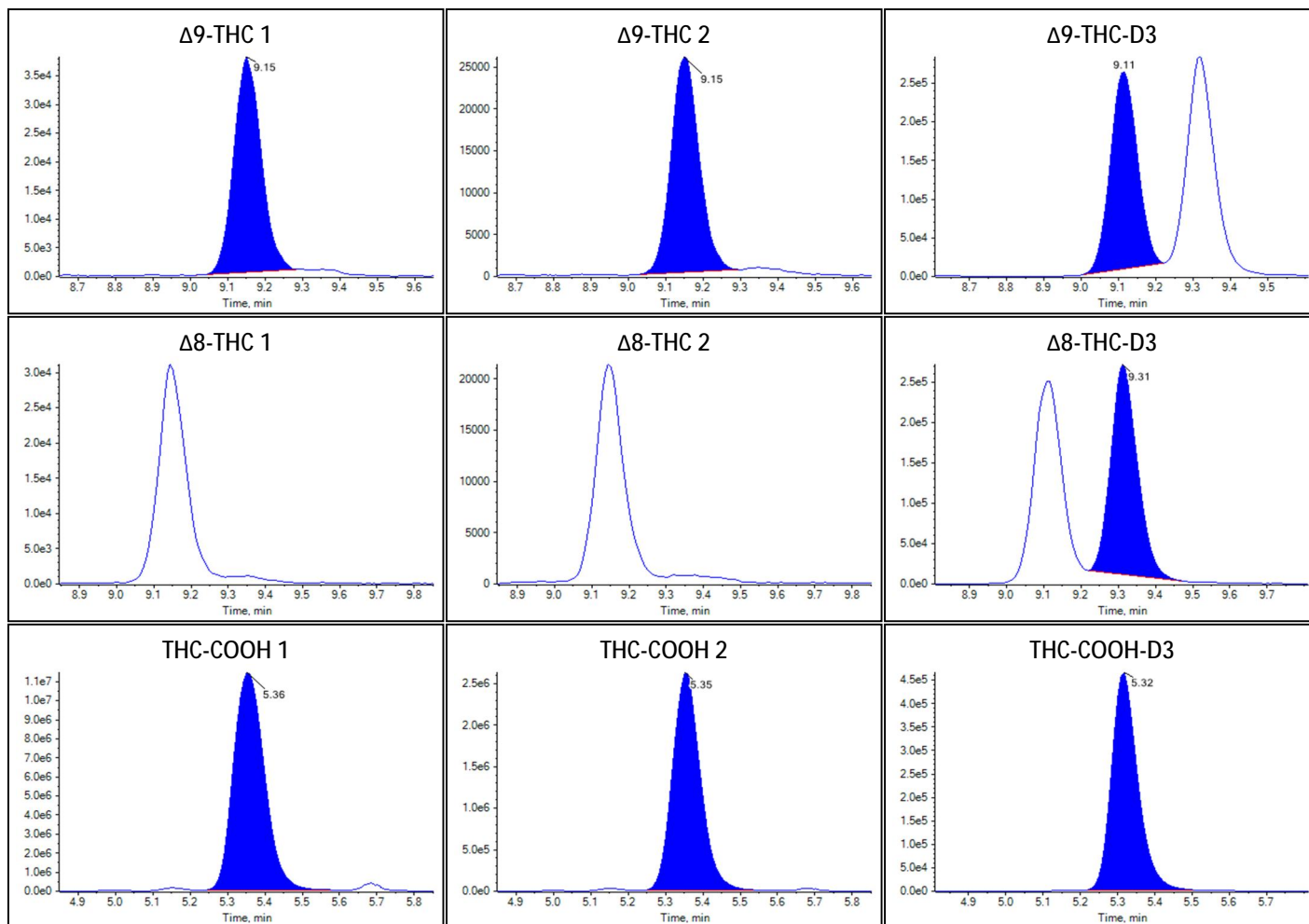
Identification Summary: F1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.584(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Not calculated)	0.707(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	N/A(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.207(Not calculated)

Peak Review: F1



Peak Review: F1





Sample Summary

Sample Name	F2
Acquisition Date/Time	2022-09-24T03:04:23
Acquisition Method	THC.dam
Batch Name	20220923SB Florida.dab
Results Table	20220923SB Florida
Sample Type	Unknown
File Name	20220923SB.wiff
Position	41
Sample Comment	

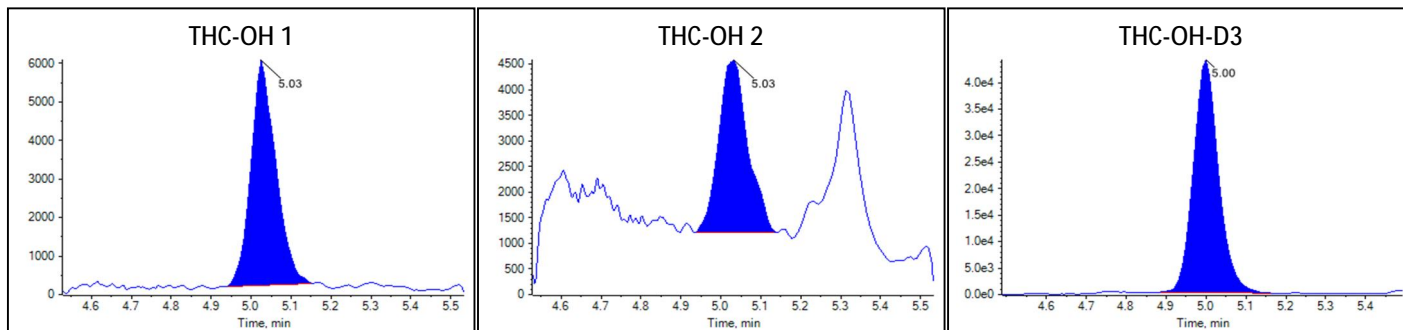
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.1313	1.17		
Δ^9 -THC	0.0219	0.86		
Δ^8 -THC	N/A	N/A		
THC-COOH	4.0149	40.09		

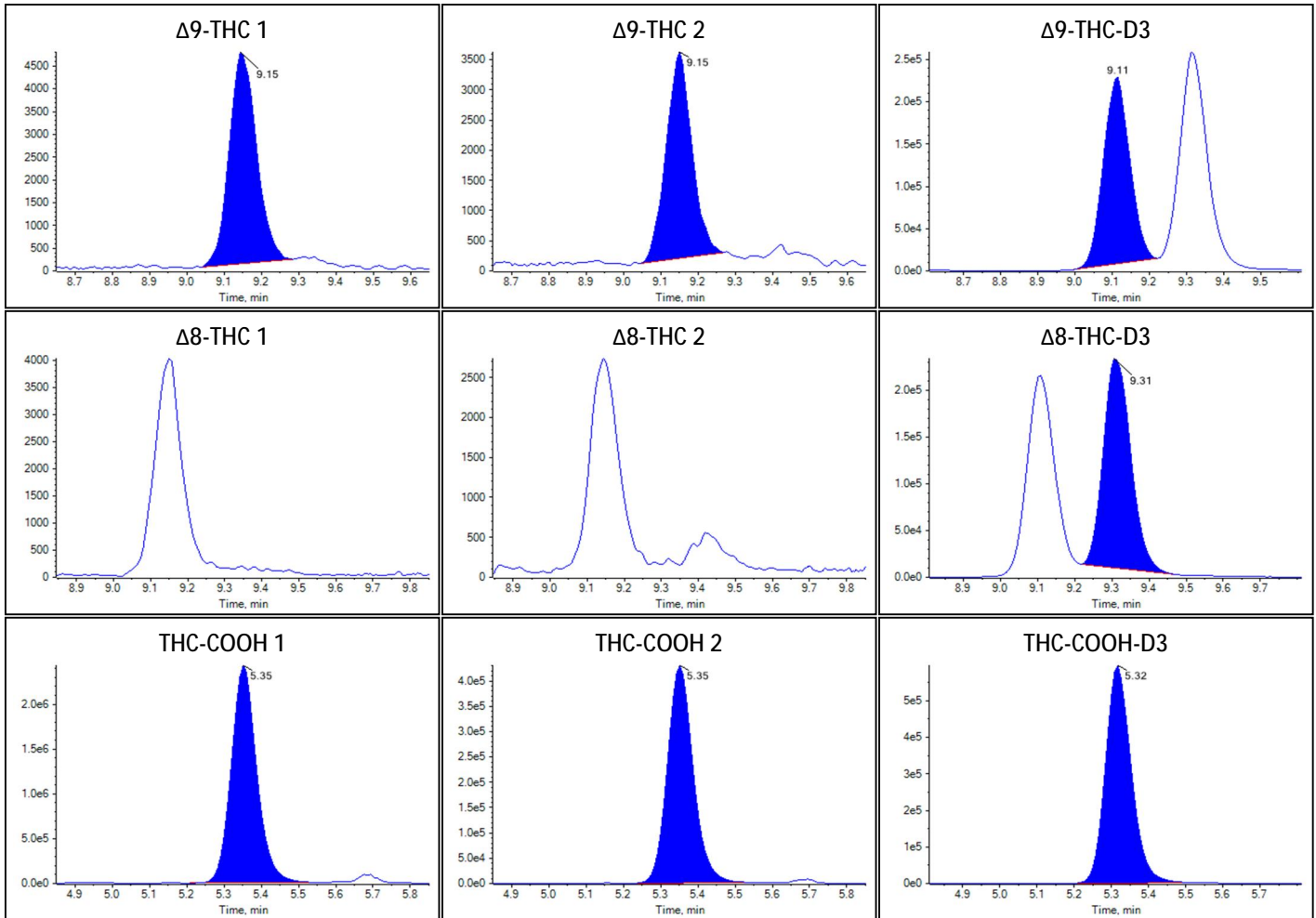
Identification Summary: F2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.678(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Not calculated)	0.693(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	N/A(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.180(Not calculated)

Peak Review: F2



Peak Review: F2





Sample Summary

Sample Name	F3
Acquisition Date/Time	2022-09-24T03:18:31
Acquisition Method	THC.dam
Batch Name	20220923SB Florida.dab
Results Table	20220923SB Florida
Sample Type	Unknown
File Name	20220923SB.wiff
Position	42
Sample Comment	

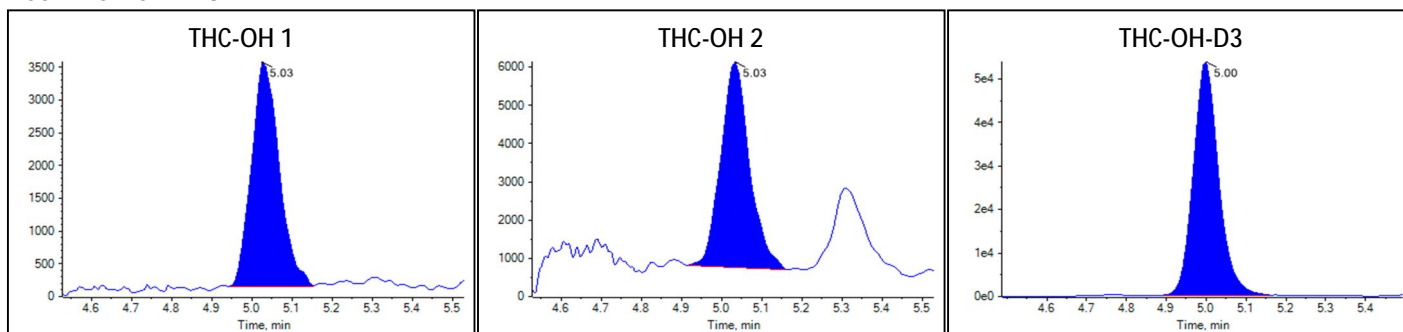
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.0698	0.64		
Δ^9 -THC	0.0256	0.99		
Δ^8 -THC	N/A	N/A		
THC-COOH	8.2187	82.36		

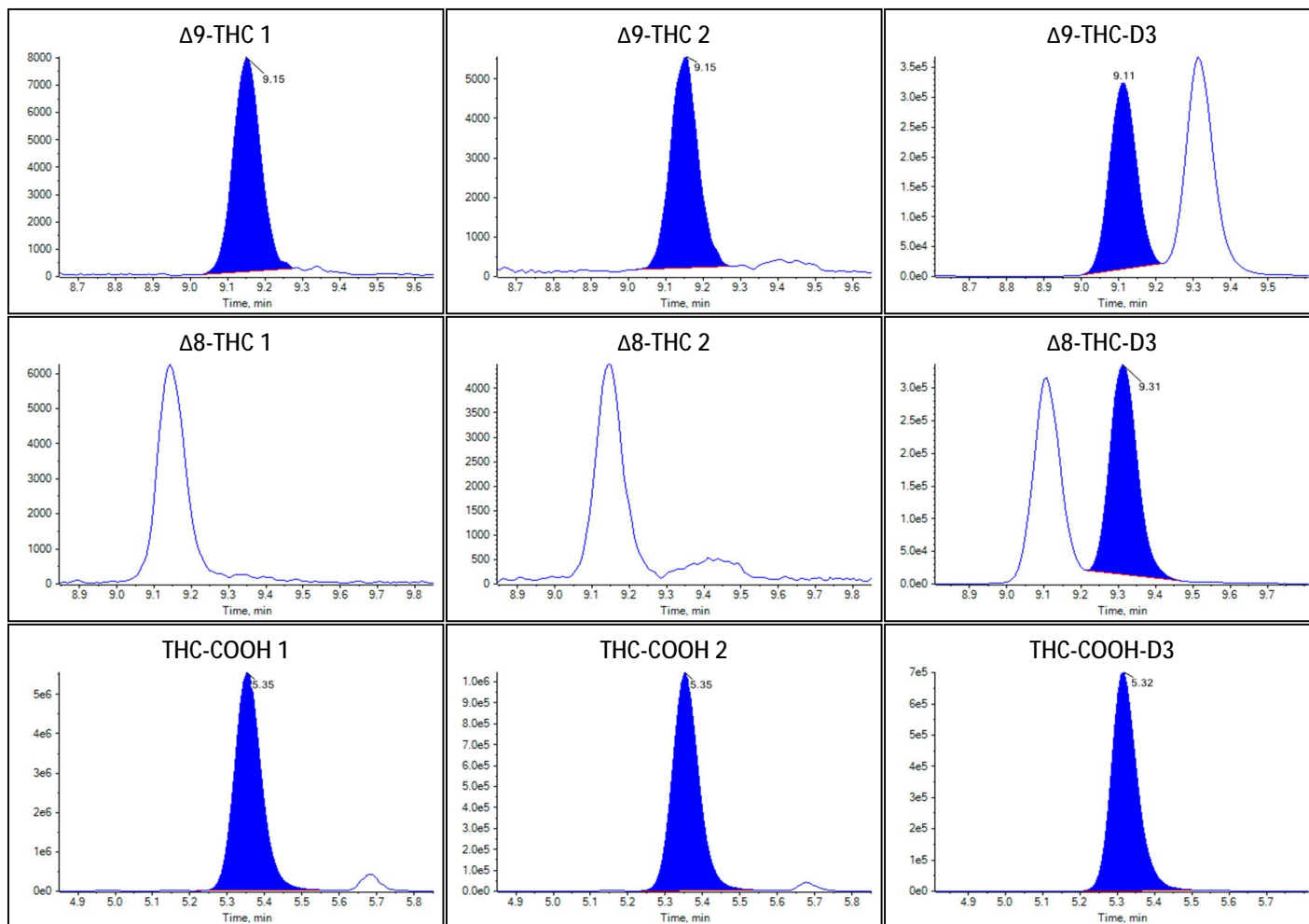
Identification Summary: F3

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	1.628(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Not calculated)	0.688(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	N/A(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.184(Not calculated)

Peak Review: F3



Peak Review: F3





Sample Summary

Sample Name	F4
Acquisition Date/Time	2022-09-24T03:32:37
Acquisition Method	THC.dam
Batch Name	20220923SB Florida.dab
Results Table	20220923SB Florida
Sample Type	Unknown
File Name	20220923SB.wiff
Position	43
Sample Comment	

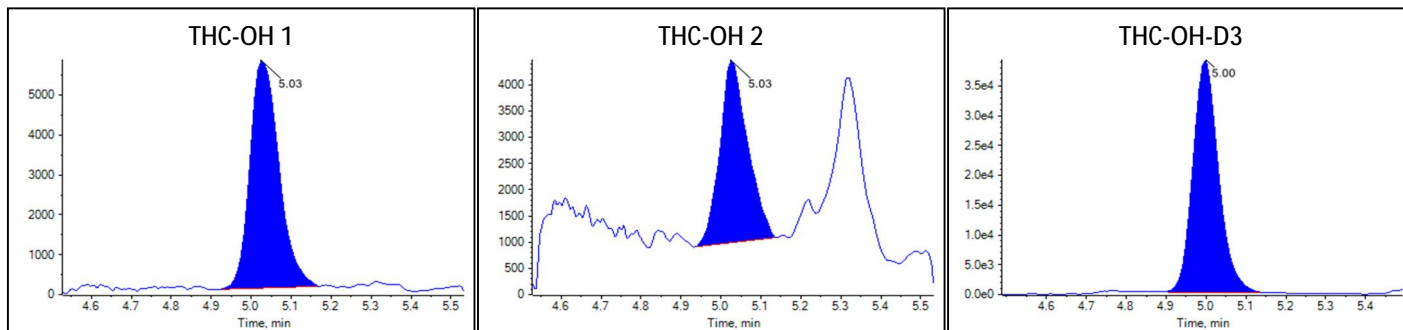
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.1660	1.47		
Δ 9-THC	0.0071	0.35		
Δ 8-THC	N/A	N/A		
THC-COOH	2.9403	29.29		

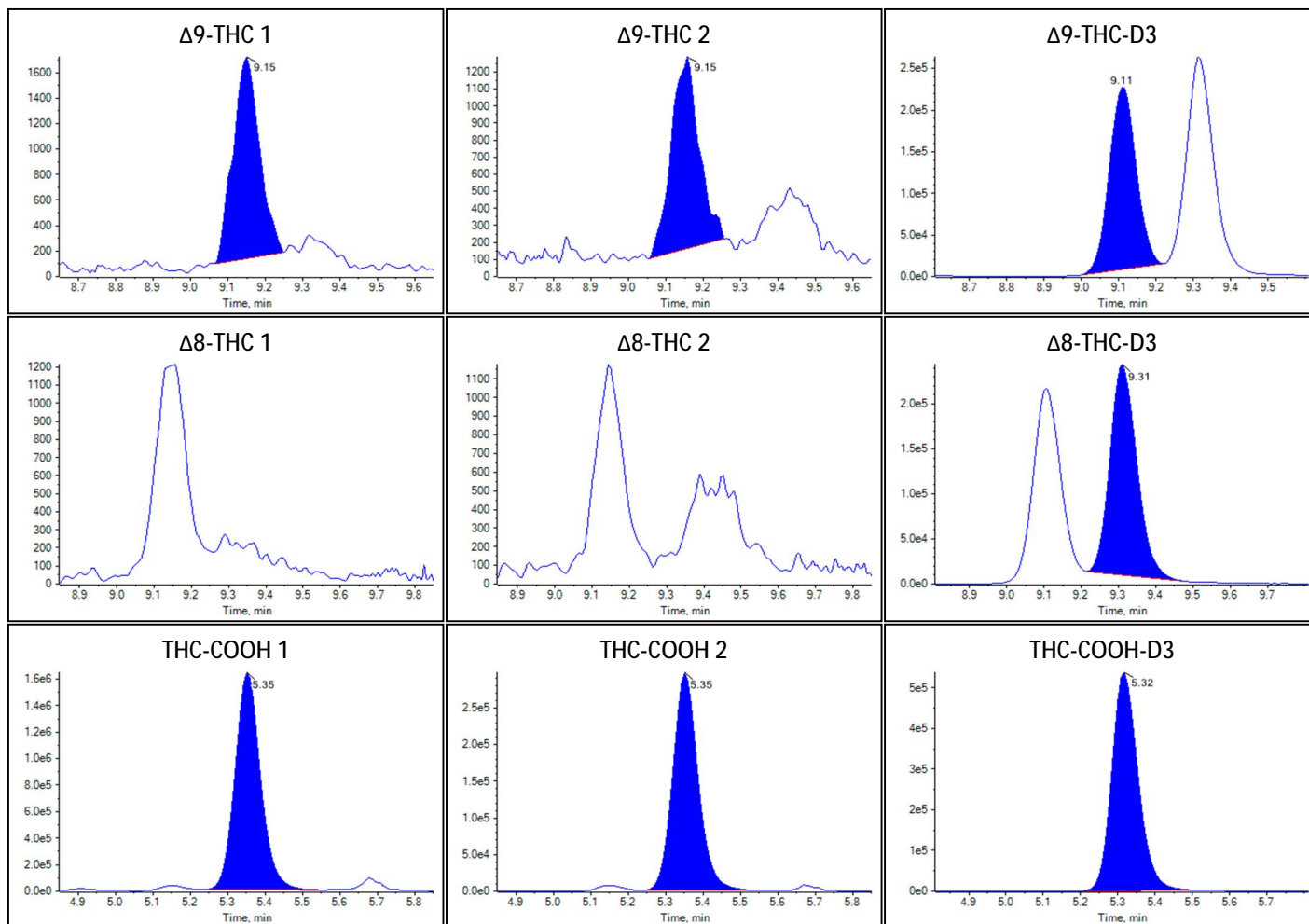
Identification Summary: F4

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.582(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.749(Not calculated)
Δ 8-THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	N/A(Not calculated)	N/A(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.180(Not calculated)

Peak Review: F4



Peak Review: F4





Sample Summary

Sample Name	F5
Acquisition Date/Time	2022-09-24T03:46:42
Acquisition Method	THC.dam
Batch Name	20220923SB Florida.dab
Results Table	20220923SB Florida
Sample Type	Unknown
File Name	20220923SB.wiff
Position	44
Sample Comment	

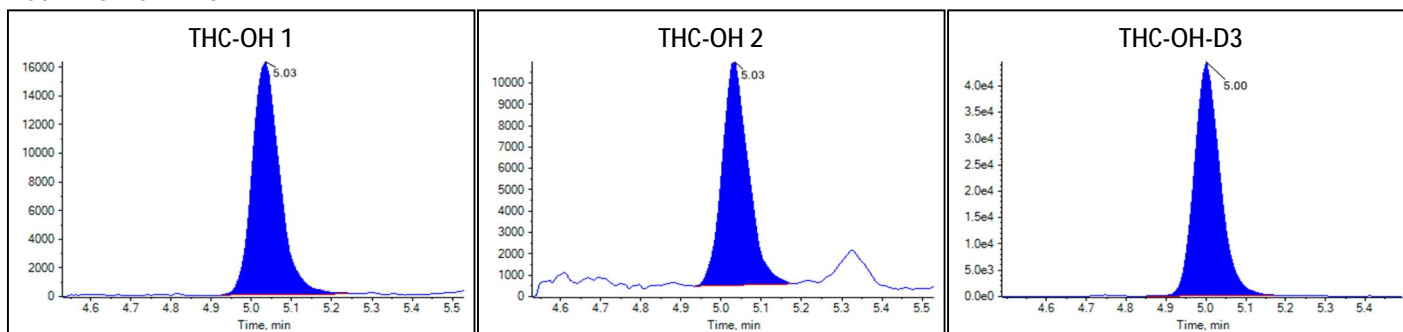
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.3917	3.41		
Δ 9-THC	0.3177	11.11		
Δ 8-THC	N/A	N/A		
THC-COOH	12.5598	126.00		

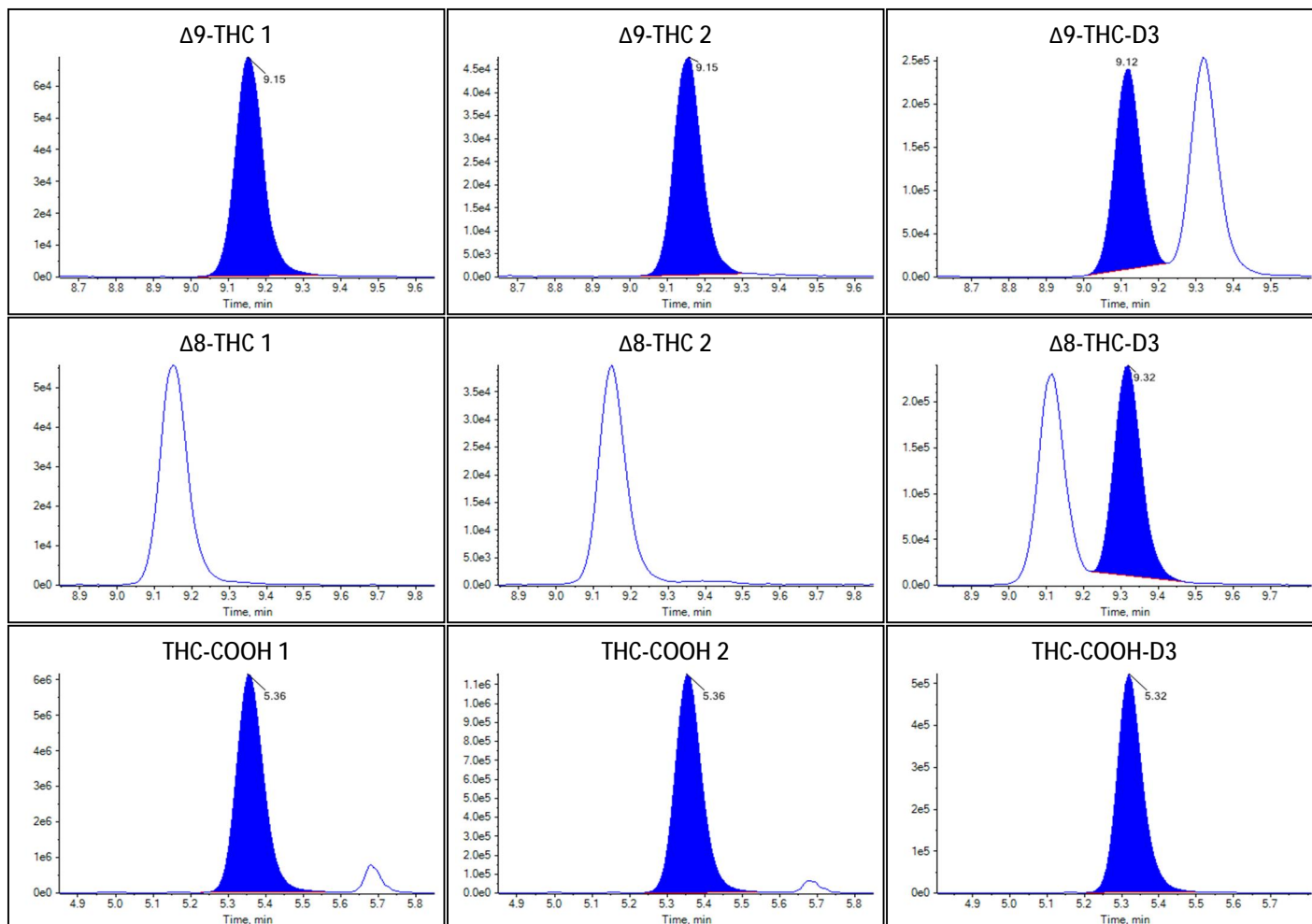
Identification Summary: F5

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.613(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.686(Not calculated)
Δ 8-THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	N/A(Not calculated)	N/A(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.185(Not calculated)

Peak Review: F5



Peak Review: F5





Sample Summary

Sample Name	F6
Acquisition Date/Time	2022-09-24T04:00:48
Acquisition Method	THC.dam
Batch Name	20220923SB Florida.dab
Results Table	20220923SB Florida
Sample Type	Unknown
File Name	20220923SB.wiff
Position	45
Sample Comment	

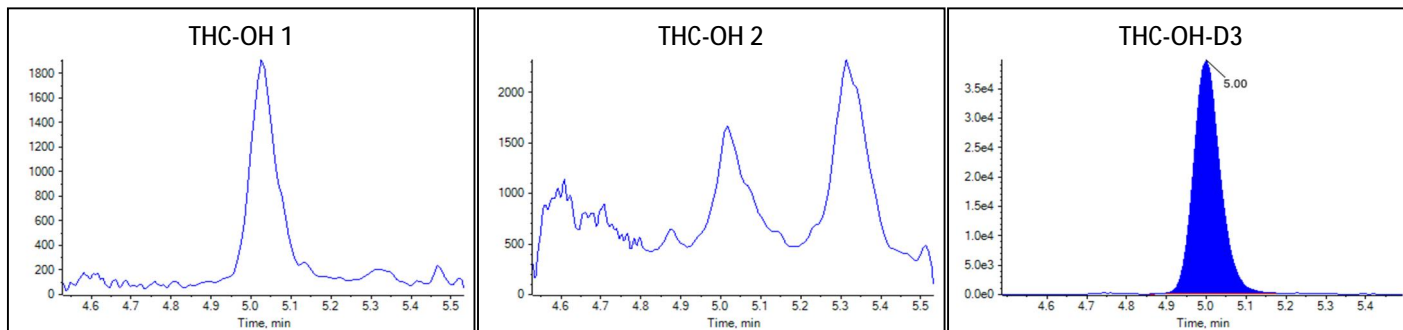
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	0.0219	0.86		
Δ^8 -THC	N/A	N/A		
THC-COOH	1.3471	13.27		

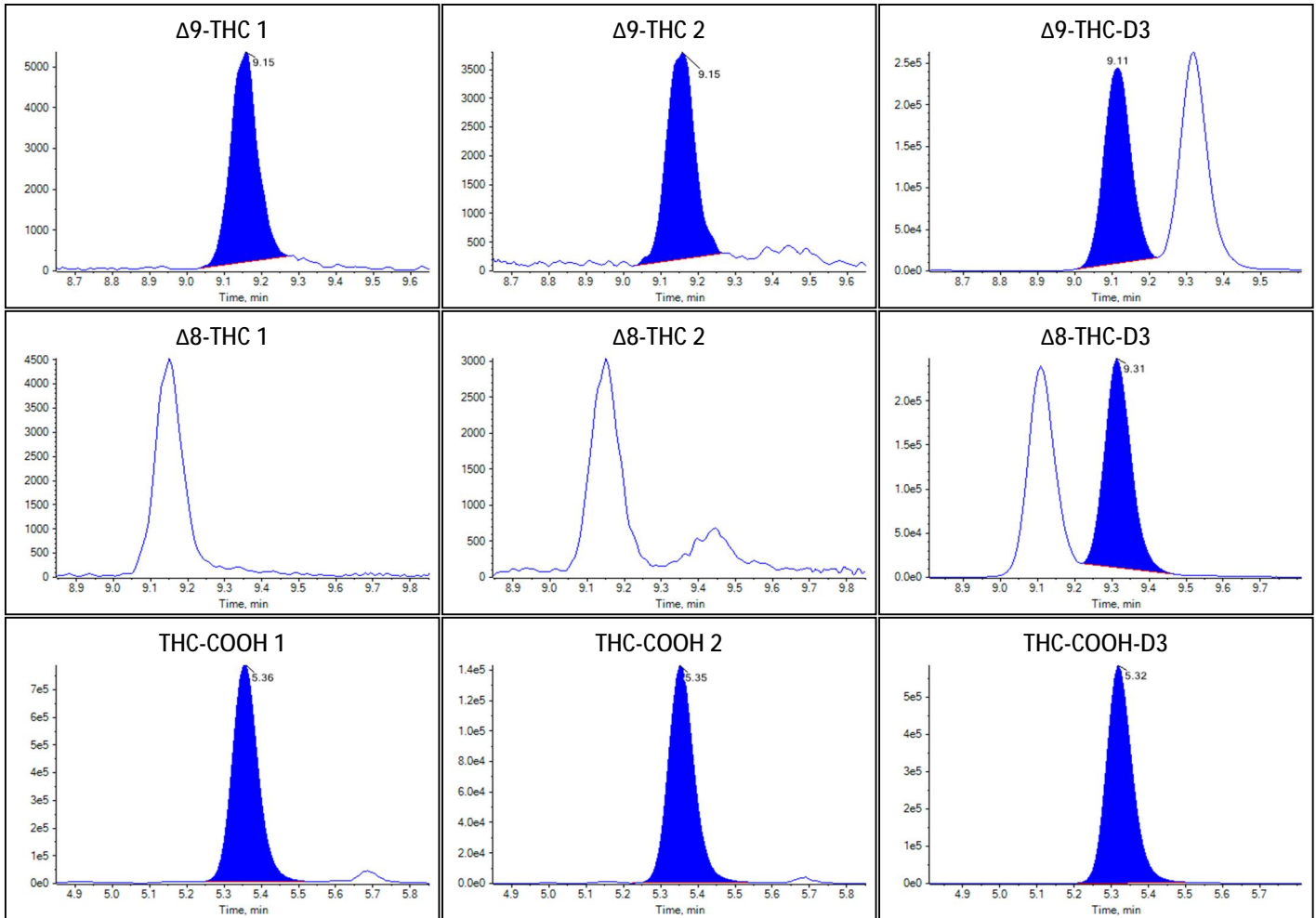
Identification Summary: F6

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	N/A(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Not calculated)	0.738(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	N/A(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.181(Not calculated)

Peak Review: F6



Peak Review: F6





Sample Summary

Sample Name	F7
Acquisition Date/Time	2022-09-24T04:14:53
Acquisition Method	THC.dam
Batch Name	20220923SB Florida.dab
Results Table	20220923SB Florida
Sample Type	Unknown
File Name	20220923SB.wiff
Position	46
Sample Comment	

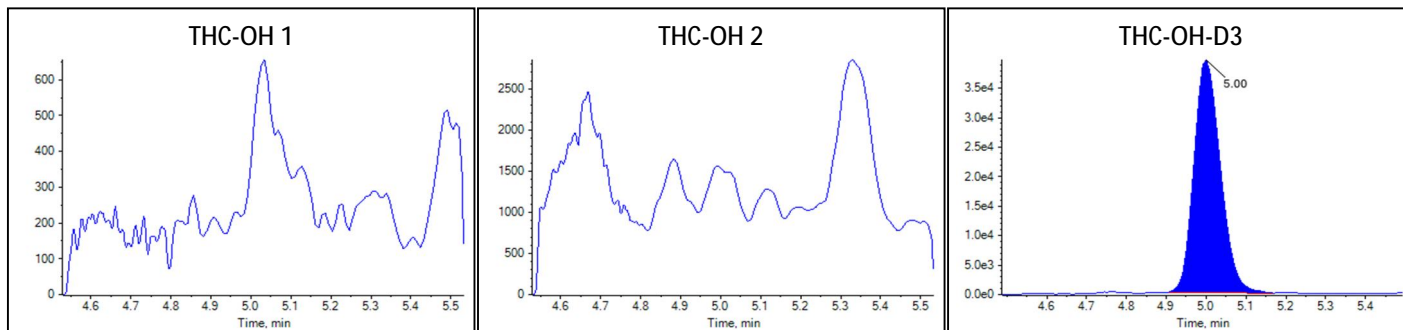
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ 9-THC	N/A	N/A		
Δ 8-THC	N/A	N/A		
THC-COOH	9.2612	92.84		

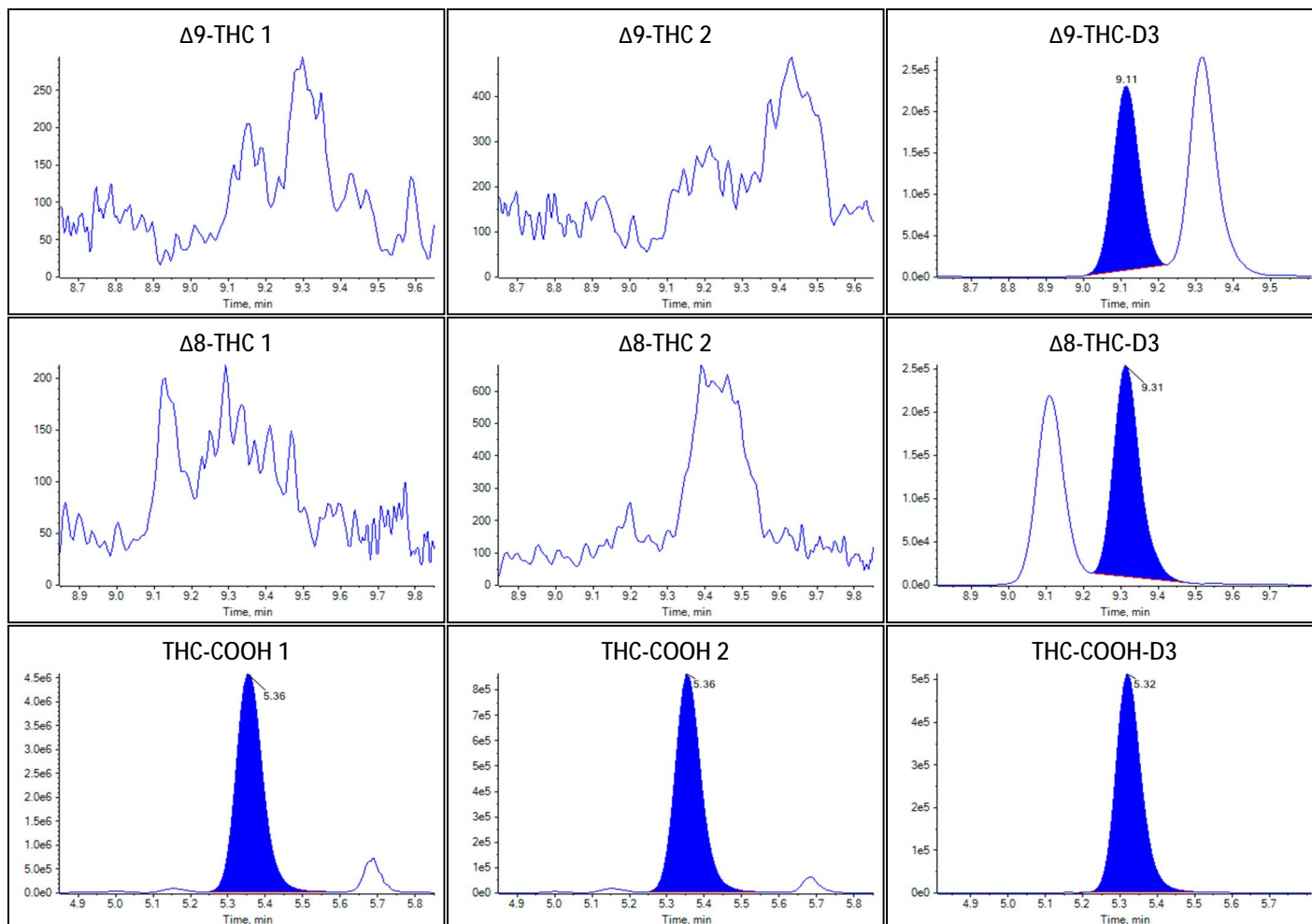
Identification Summary: F7

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	N/A(Not calculated)
Δ 9-THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	N/A(Not calculated)	N/A(Not calculated)
Δ 8-THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	N/A(Not calculated)	N/A(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.184(Not calculated)

Peak Review: F7



Peak Review: F7





Sample Summary

Sample Name	F8
Acquisition Date/Time	2022-09-24T04:28:58
Acquisition Method	THC.dam
Batch Name	20220923SB Florida.dab
Results Table	20220923SB Florida
Sample Type	Unknown
File Name	20220923SB.wiff
Position	47
Sample Comment	

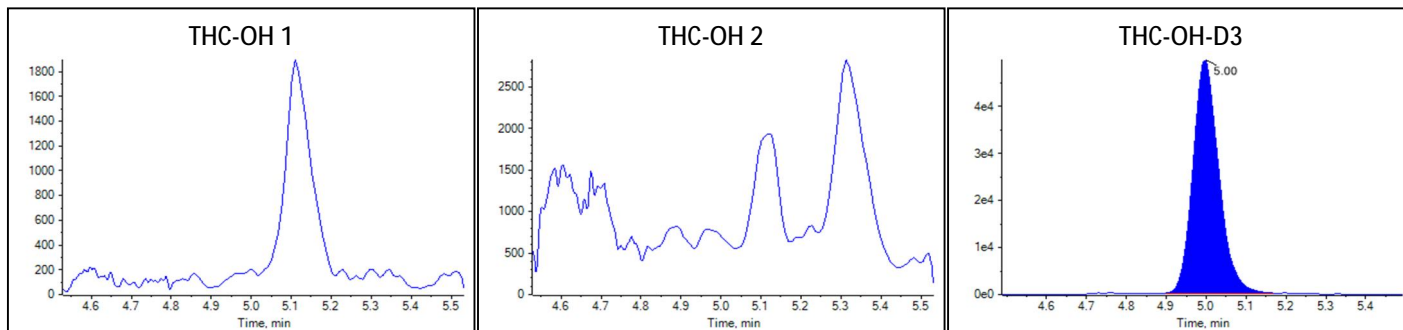
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ 9-THC	N/A	N/A		
Δ 8-THC	0.0413	1.93		
THC-COOH	N/A	N/A		

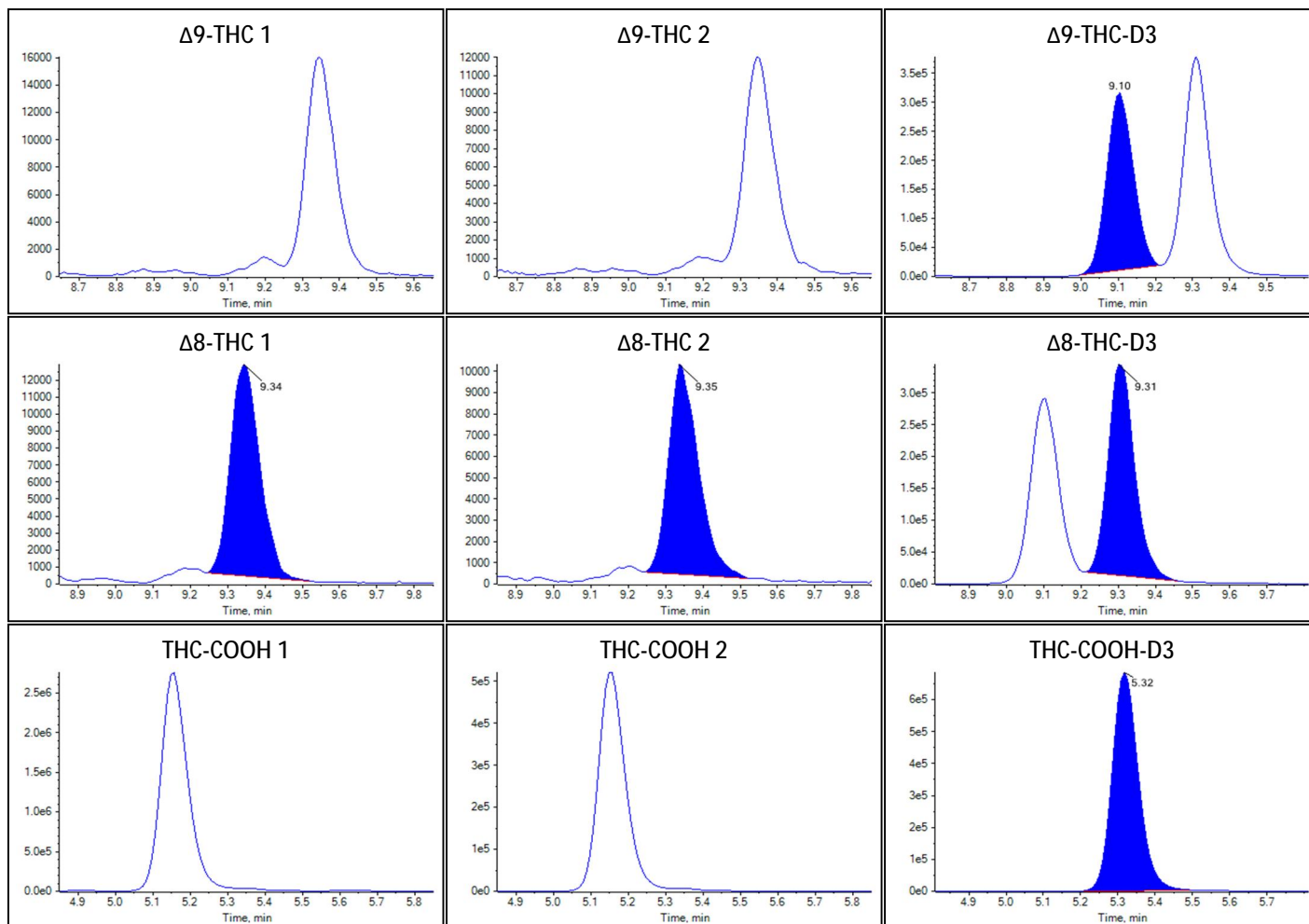
Identification Summary: F8

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	N/A(Not calculated)
Δ 9-THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	N/A(Not calculated)	N/A(Not calculated)
Δ 8-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	1.000(Not calculated)	0.803(Not calculated)
THC-COOH 1	343.0 / 299.1	N/A(Not calculated)	
THC-COOH 2	343.0 / 191.0	N/A(Not calculated)	N/A(Not calculated)

Peak Review: F8



Peak Review: F8





Sample Summary

Sample Name	F9
Acquisition Date/Time	2022-09-24T04:43:04
Acquisition Method	THC.dam
Batch Name	20220923SB Florida.dab
Results Table	20220923SB Florida
Sample Type	Unknown
File Name	20220923SB.wiff
Position	48
Sample Comment	

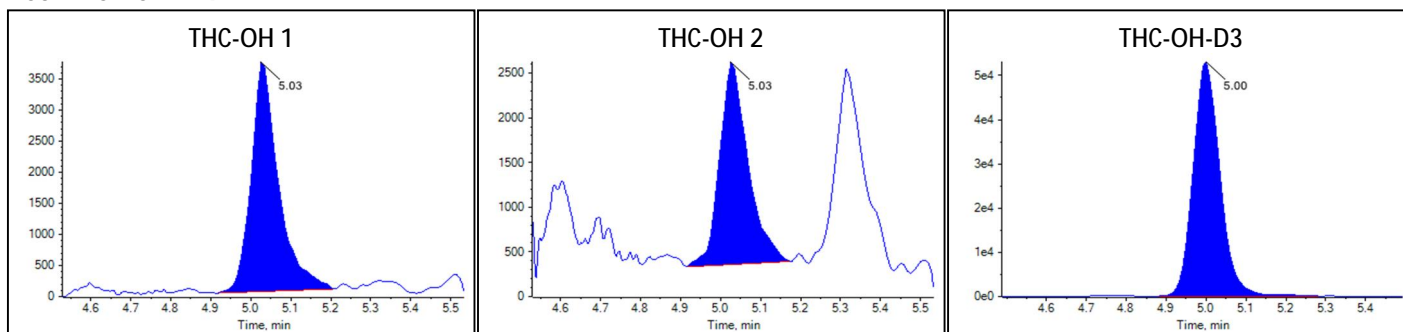
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.0713	0.66		
Δ 9-THC	0.0384	1.43		
Δ 8-THC	N/A	N/A		
THC-COOH	1.6412	16.23		

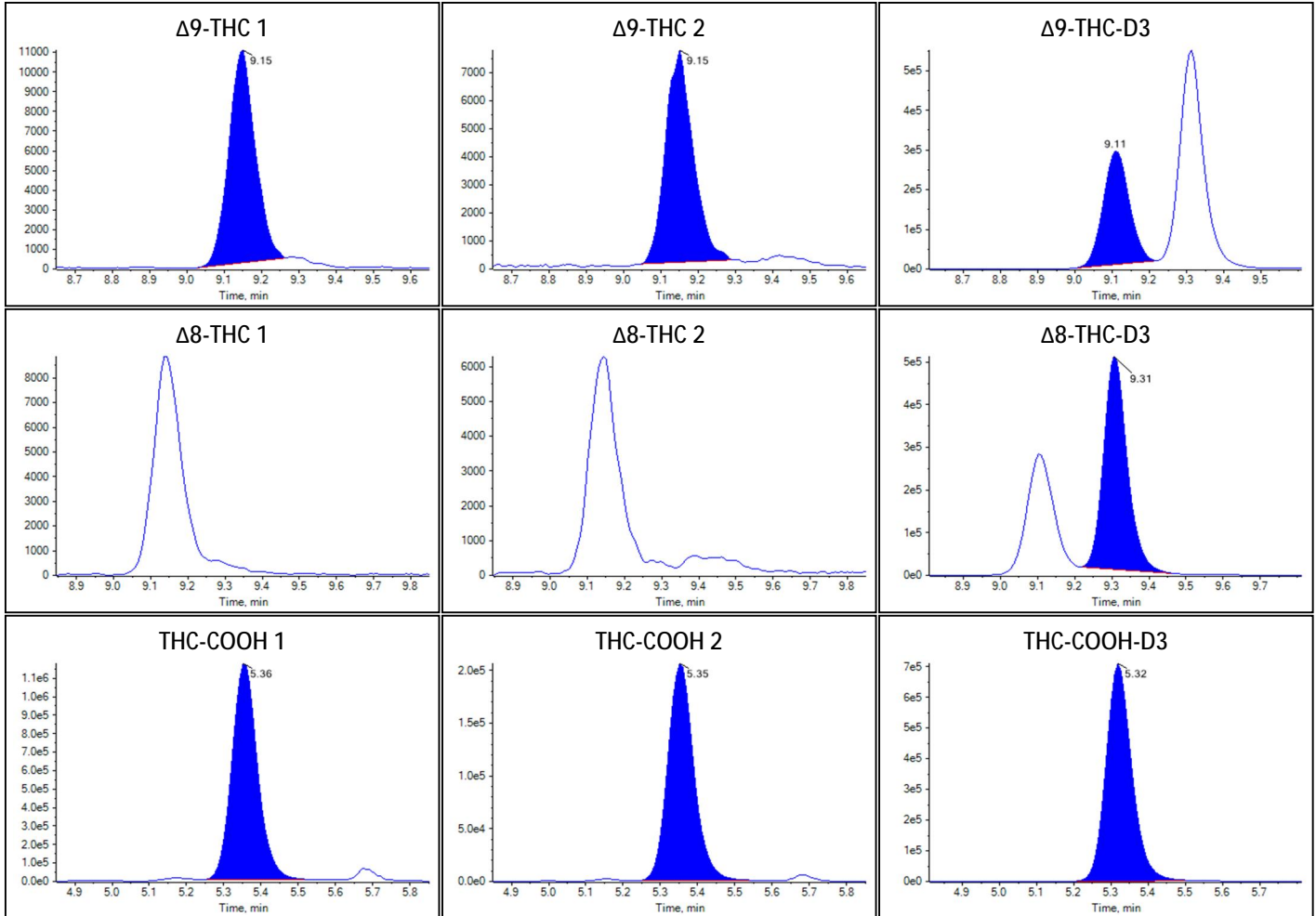
Identification Summary: F9

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.637(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.730(Not calculated)
Δ 8-THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	N/A(Not calculated)	N/A(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.179(Not calculated)

Peak Review: F9



Peak Review: F9





Sample Summary

Sample Name	F10
Acquisition Date/Time	2022-09-24T04:57:09
Acquisition Method	THC.dam
Batch Name	20220923SB Florida.dab
Results Table	20220923SB Florida
Sample Type	Unknown
File Name	20220923SB.wiff
Position	49
Sample Comment	

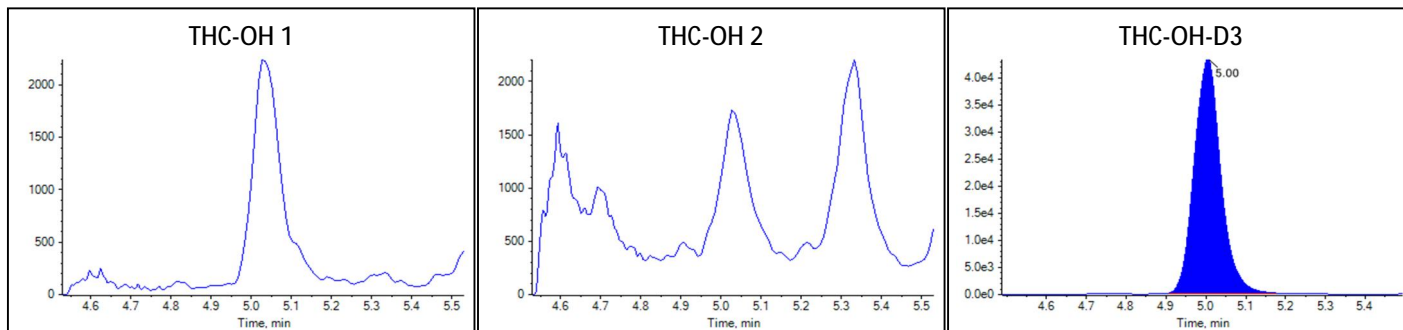
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	0.0207	0.82		
Δ^8 -THC	N/A	N/A		
THC-COOH	4.0836	40.78		

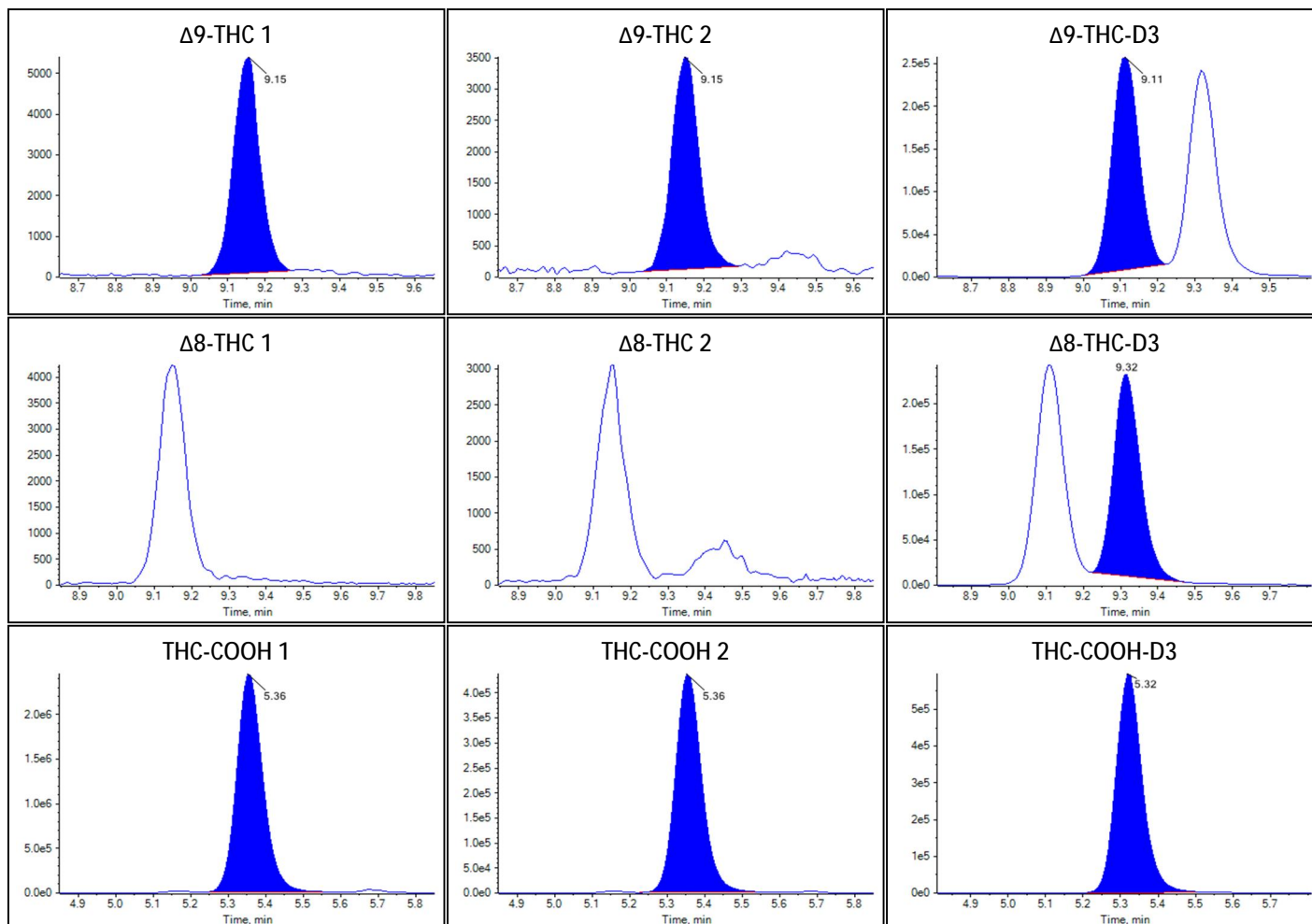
Identification Summary: F10

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	N/A(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Not calculated)	0.662(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	N/A(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.180(Not calculated)

Peak Review: F10



Peak Review: F10





Sample Summary

Sample Name	Low Control
Acquisition Date/Time	2022-09-24T05:11:15
Acquisition Method	THC.dam
Batch Name	20220923SB Florida.dab
Results Table	20220923SB Florida
Sample Type	Quality Control
File Name	20220923SB.wiff
Position	50
Sample Comment	

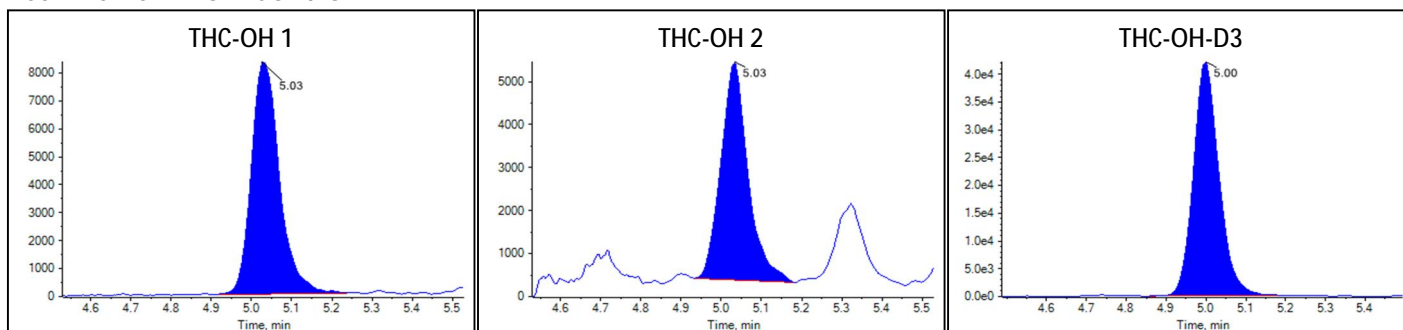
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.2167	1.91		
Δ^9 -THC	0.0835	2.98		
Δ^8 -THC	0.0631	2.81		
THC-COOH	0.7759	7.53		

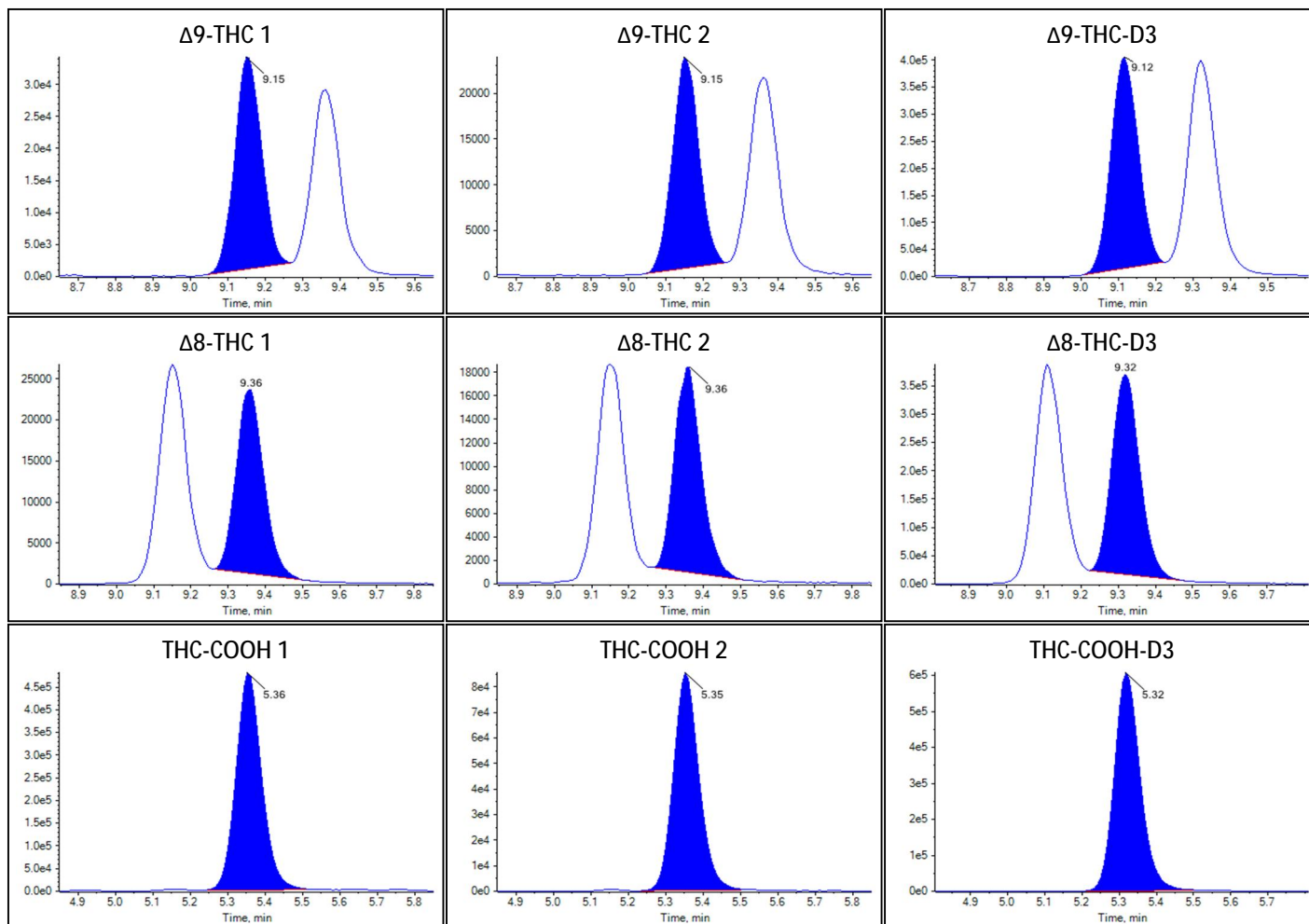
Identification Summary: Low Control

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.587(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Not calculated)	0.687(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Not calculated)	0.757(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.177(Not calculated)

Peak Review: Low Control



Peak Review: Low Control





Sample Summary

Sample Name	F11
Acquisition Date/Time	2022-09-24T05:25:20
Acquisition Method	THC.dam
Batch Name	20220923SB Florida.dab
Results Table	20220923SB Florida
Sample Type	Unknown
File Name	20220923SB.wiff
Position	51
Sample Comment	

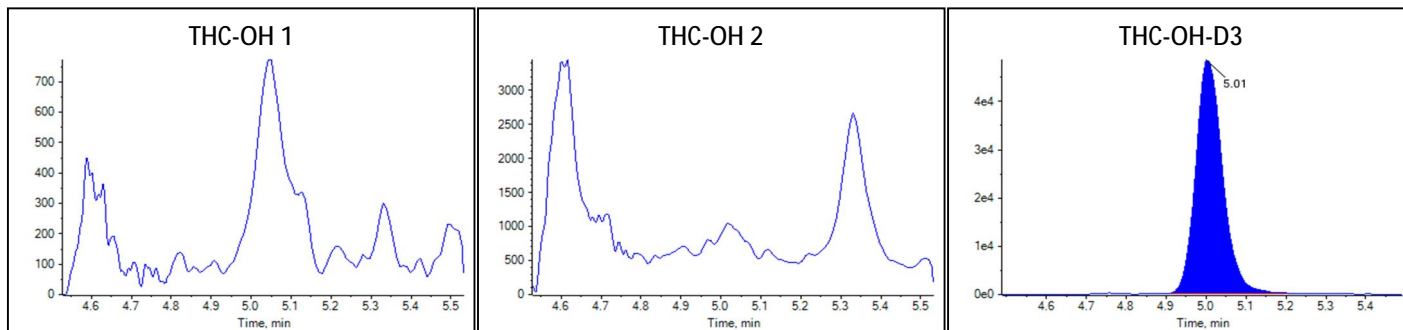
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	0.0146	0.61		
Δ^8 -THC	N/A	N/A		
THC-COOH	0.7052	6.82		

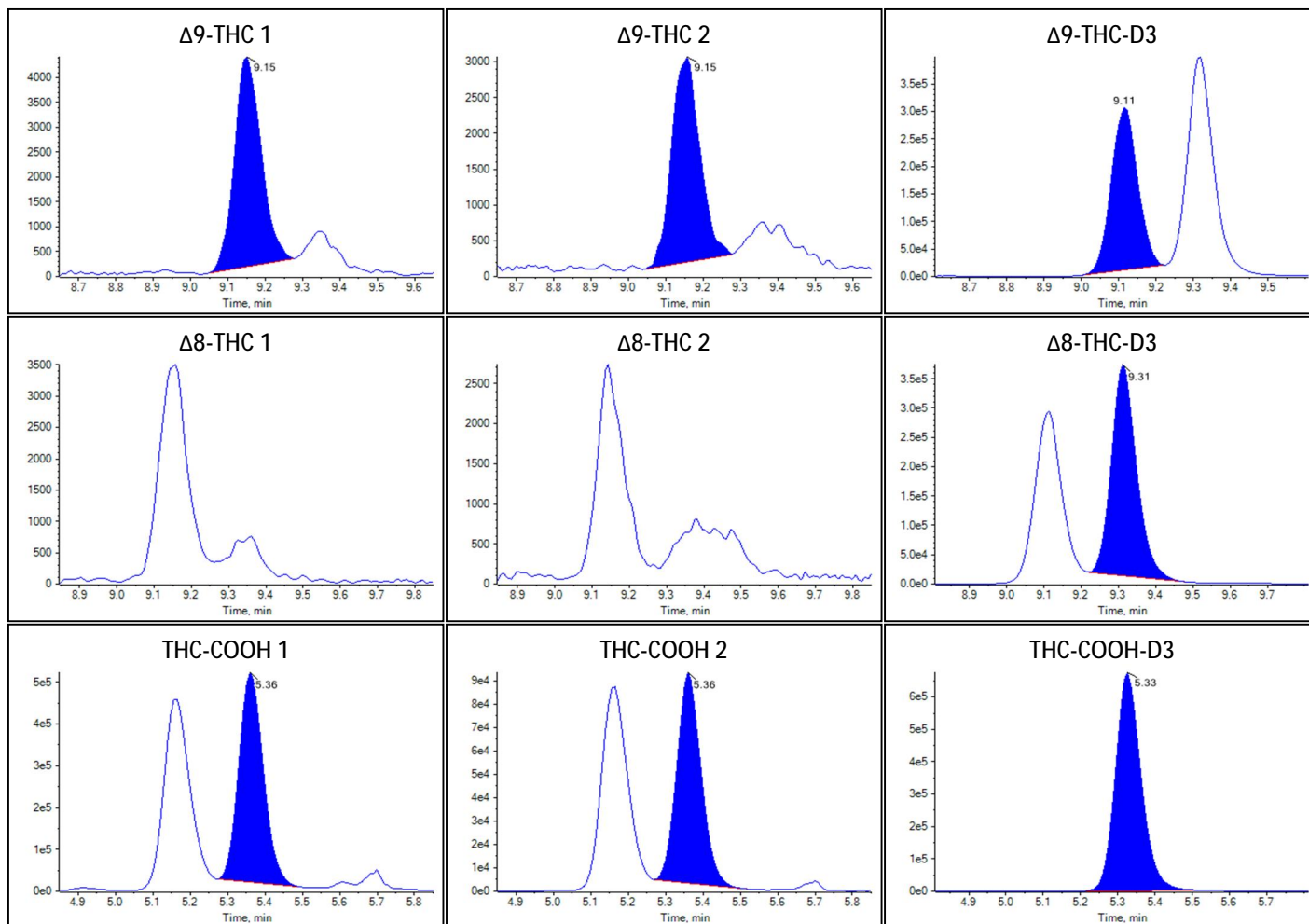
Identification Summary: F11

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	N/A(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Not calculated)	0.717(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	N/A(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.178(Not calculated)

Peak Review: F11



Peak Review: F11





Sample Summary

Sample Name	F12
Acquisition Date/Time	2022-09-24T05:39:25
Acquisition Method	THC.dam
Batch Name	20220923SB Florida.dab
Results Table	20220923SB Florida
Sample Type	Unknown
File Name	20220923SB.wiff
Position	52
Sample Comment	

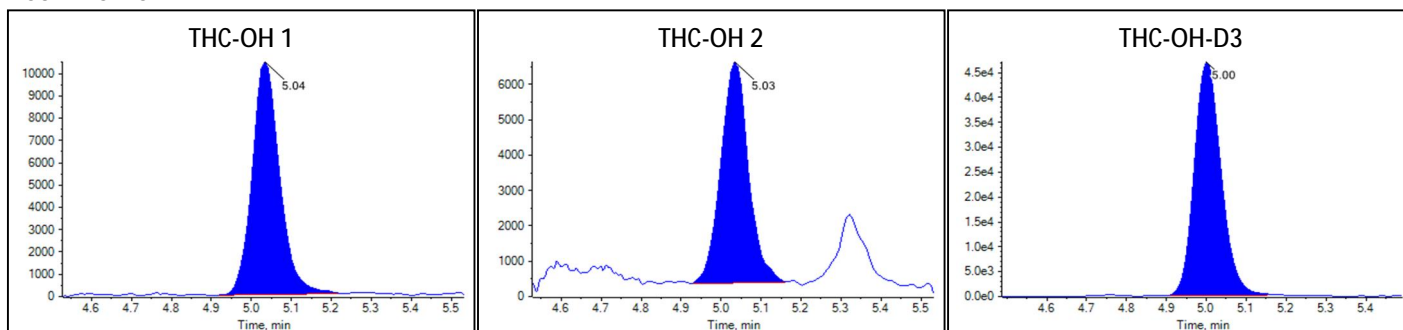
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.2285	2.01		
Δ 9-THC	0.1183	4.18		
Δ 8-THC	N/A	N/A		
THC-COOH	3.8391	38.32		

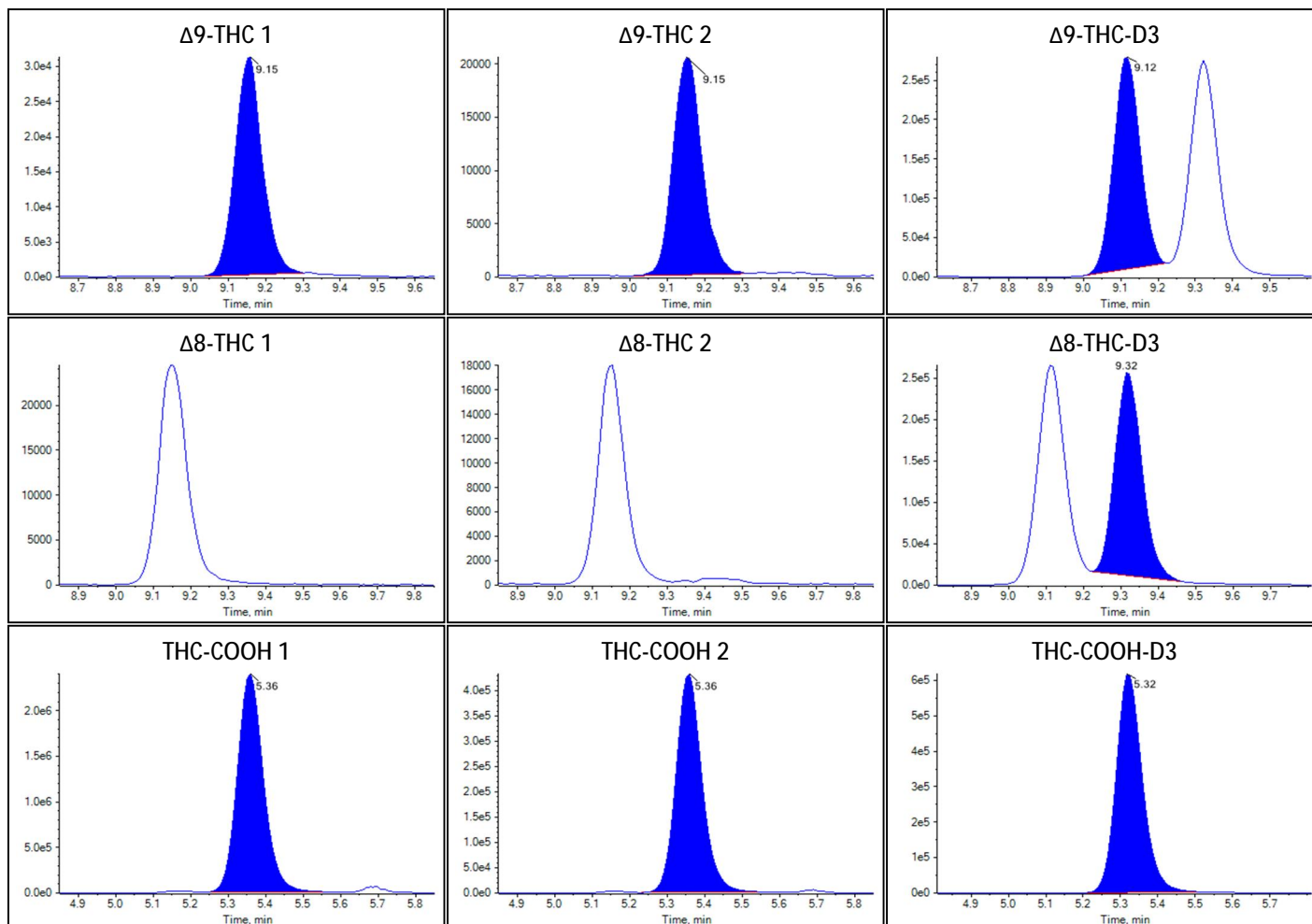
Identification Summary: F12

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.603(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.696(Not calculated)
Δ 8-THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	N/A(Not calculated)	N/A(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.180(Not calculated)

Peak Review: F12



Peak Review: F12





Sample Summary

Sample Name	F13
Acquisition Date/Time	2022-09-24T05:53:31
Acquisition Method	THC.dam
Batch Name	20220923SB Florida.dab
Results Table	20220923SB Florida
Sample Type	Unknown
File Name	20220923SB.wiff
Position	53
Sample Comment	

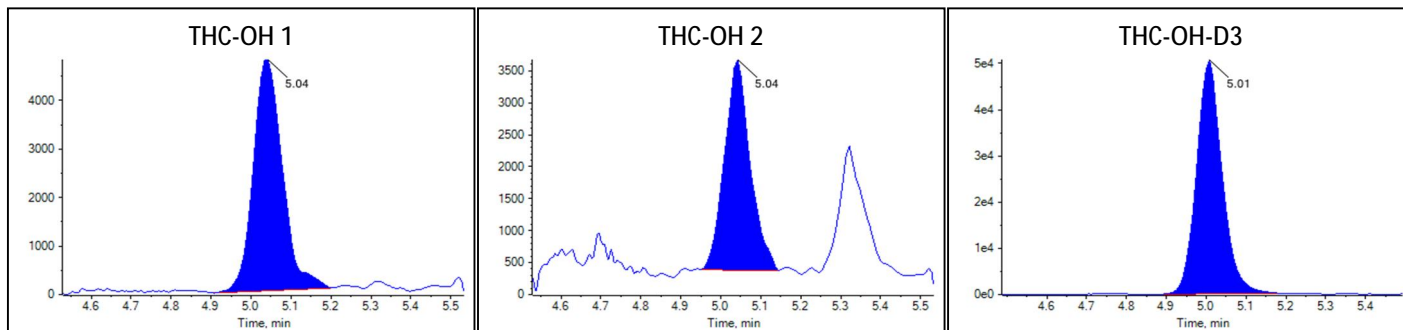
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.1081	0.97		
Δ 9-THC	0.1397	4.92		
Δ 8-THC	N/A	N/A		
THC-COOH	2.3085	22.93		

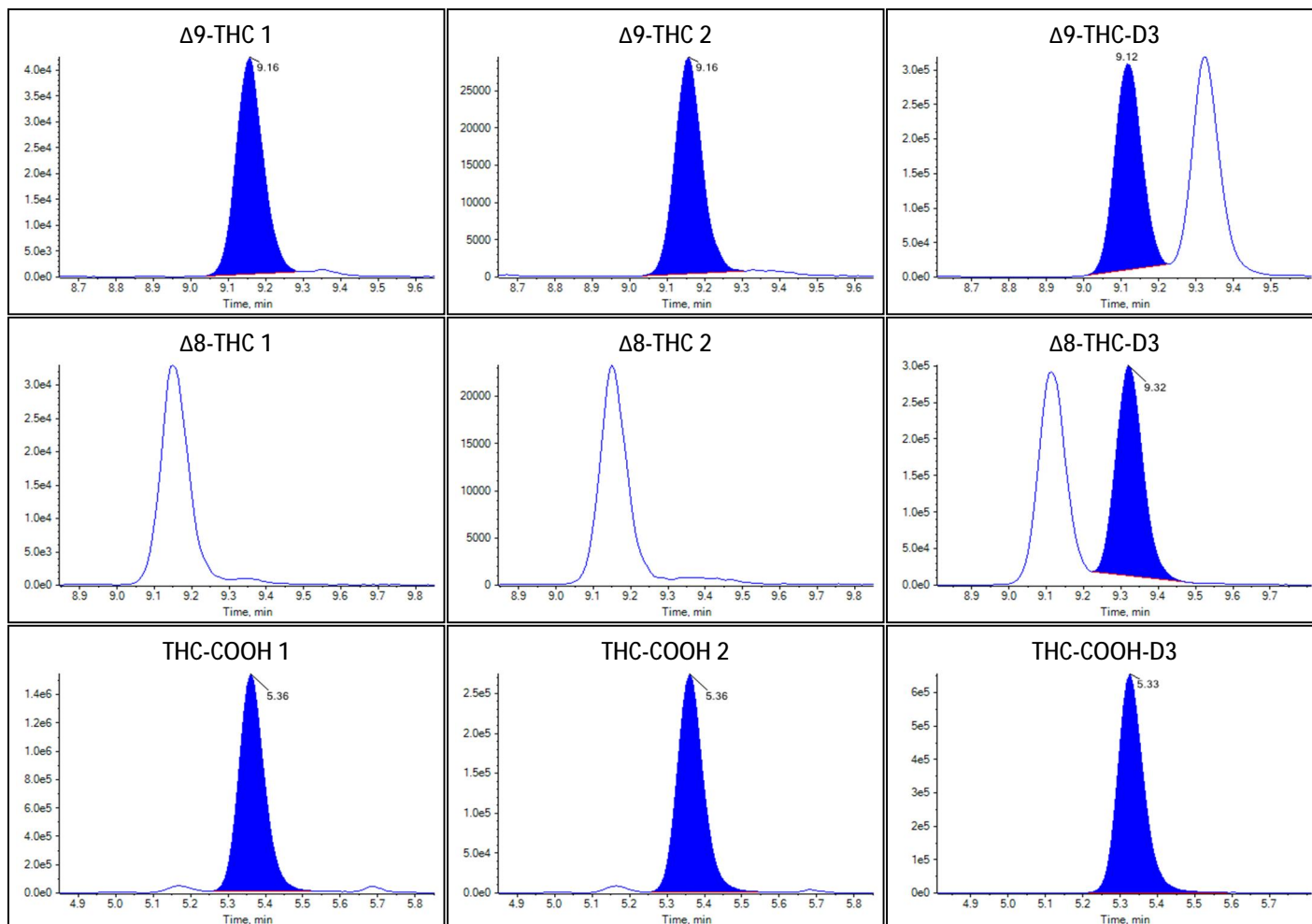
Identification Summary: F13

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.602(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.696(Not calculated)
Δ 8-THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	N/A(Not calculated)	N/A(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.180(Not calculated)

Peak Review: F13



Peak Review: F13





Sample Summary

Sample Name	F14
Acquisition Date/Time	2022-09-24T06:07:36
Acquisition Method	THC.dam
Batch Name	20220923SB Florida.dab
Results Table	20220923SB Florida
Sample Type	Unknown
File Name	20220923SB.wiff
Position	54
Sample Comment	

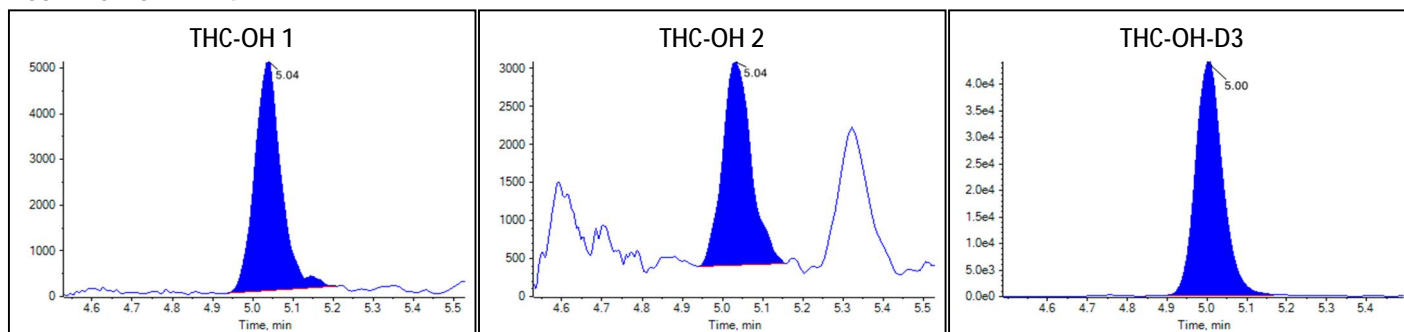
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.1104	0.99		
Δ 9-THC	0.0578	2.10		
Δ 8-THC	N/A	N/A		
THC-COOH	6.1214	61.27		

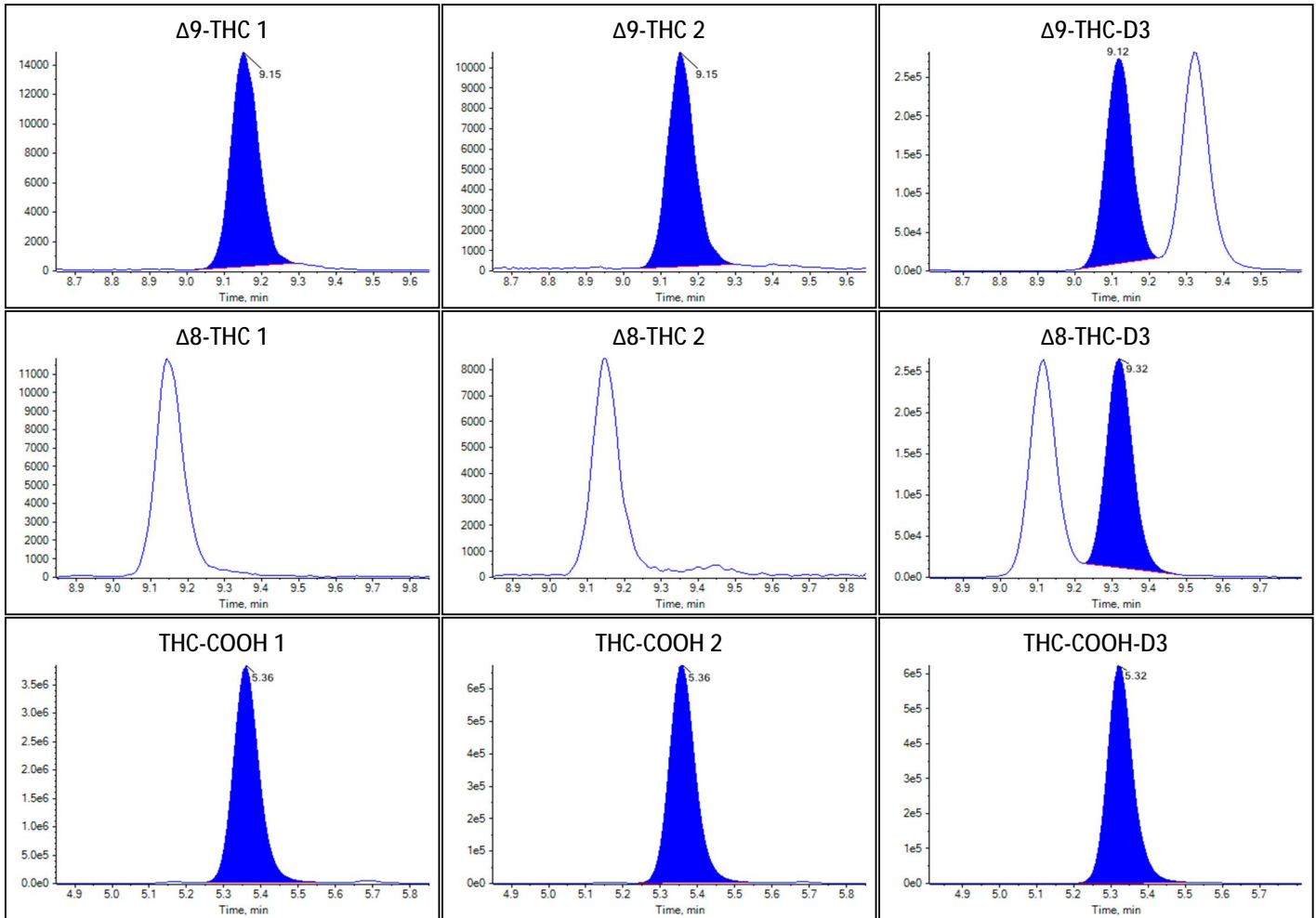
Identification Summary: F14

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.580(Not calculated)
Δ 9-THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ 9-THC 2	315.1 / 123.0	1.000(Not calculated)	0.707(Not calculated)
Δ 8-THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ 8-THC 2	315.1 / 123.1	N/A(Not calculated)	N/A(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.179(Not calculated)

Peak Review: F14



Peak Review: F14





Sample Summary

Sample Name	CTS-2
Acquisition Date/Time	2022-09-24T06:21:42
Acquisition Method	THC.dam
Batch Name	20220923SB Florida.dab
Results Table	20220923SB Florida
Sample Type	Unknown
File Name	20220923SB.wiff
Position	55
Sample Comment	

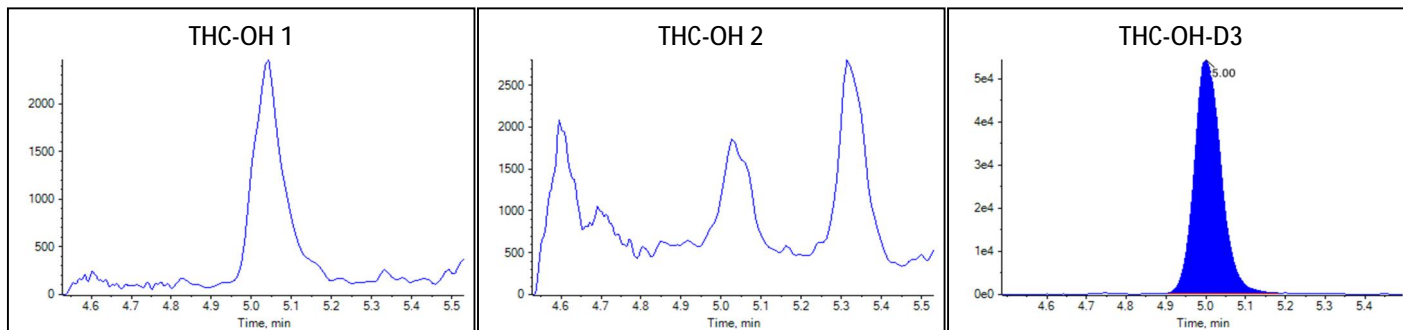
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	0.0286	1.09		
Δ^8 -THC	N/A	N/A		
THC-COOH	3.1946	31.84		

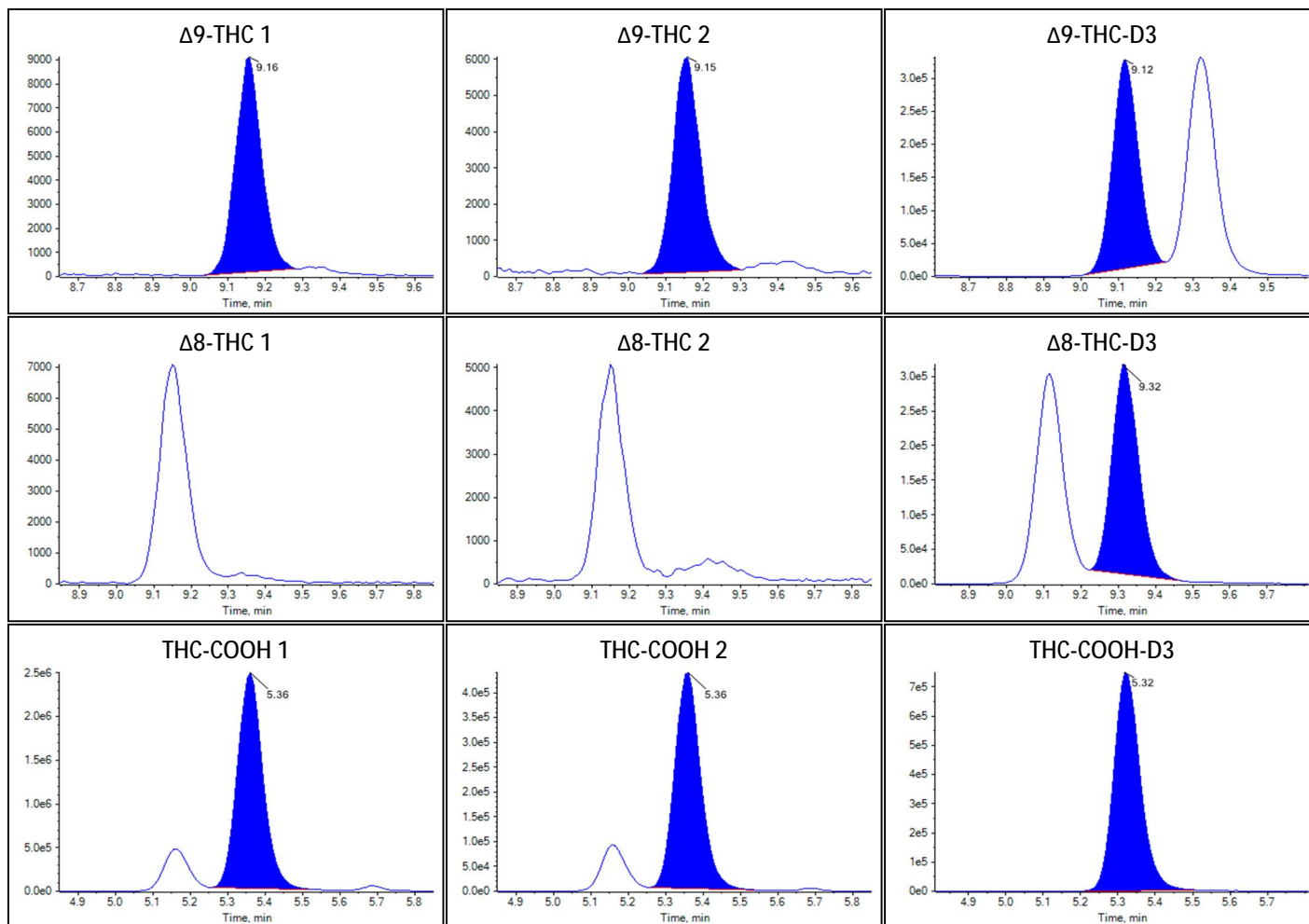
Identification Summary: CTS-2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	N/A(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Not calculated)	0.711(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	N/A(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.179(Not calculated)

Peak Review: CTS-2



Peak Review: CTS-2





Sample Summary

Sample Name	THC-1
Acquisition Date/Time	2022-09-24T06:35:47
Acquisition Method	THC.dam
Batch Name	20220923SB Florida.dab
Results Table	20220923SB Florida
Sample Type	Unknown
File Name	20220923SB.wiff
Position	56
Sample Comment	

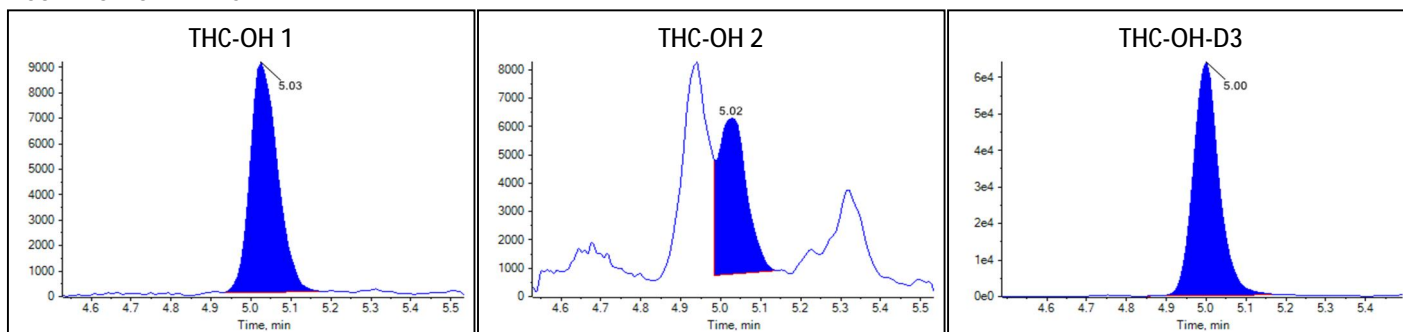
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.1503	1.34		
Δ^9 -THC	0.0323	1.21		
Δ^8 -THC	N/A	N/A		
THC-COOH	1.3741	13.54		

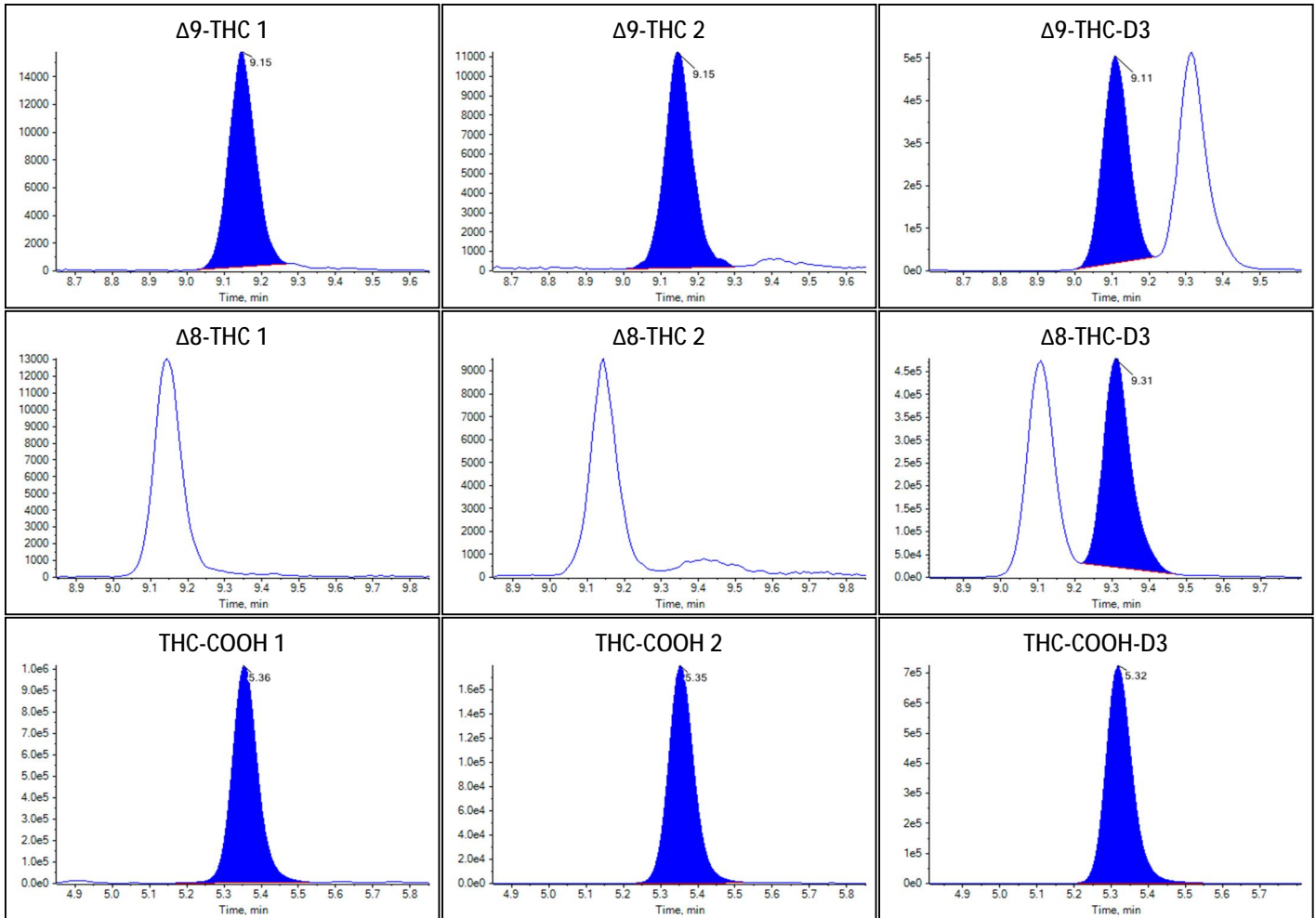
Identification Summary: THC-1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.000(Not calculated)	0.638(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Not calculated)	0.750(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	N/A(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.176(Not calculated)

Peak Review: THC-1



Peak Review: THC-1





Sample Summary

Sample Name	THC-2
Acquisition Date/Time	2022-09-24T06:49:52
Acquisition Method	THC.dam
Batch Name	20220923SB Florida.dab
Results Table	20220923SB Florida
Sample Type	Unknown
File Name	20220923SB.wiff
Position	57
Sample Comment	

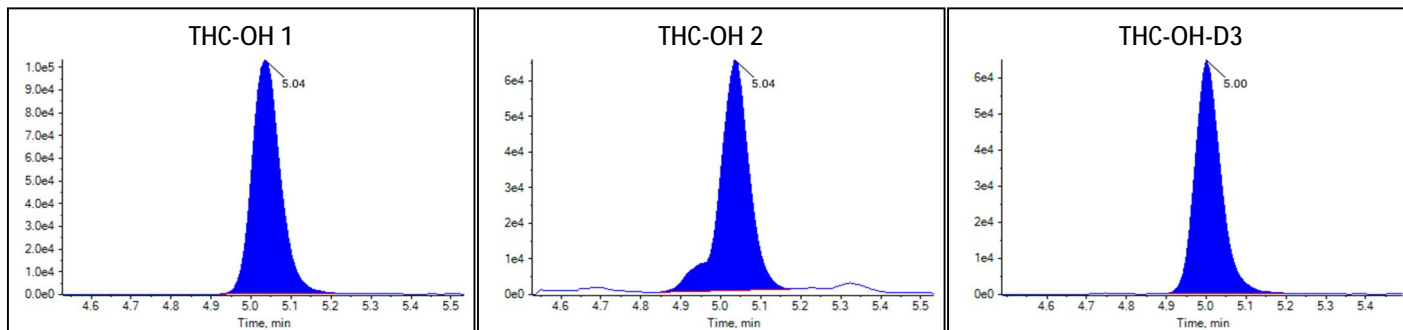
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.7352	14.97		
Δ^9 -THC	0.8781	30.88		
Δ^8 -THC	N/A	N/A		
THC-COOH	8.5489	85.68		

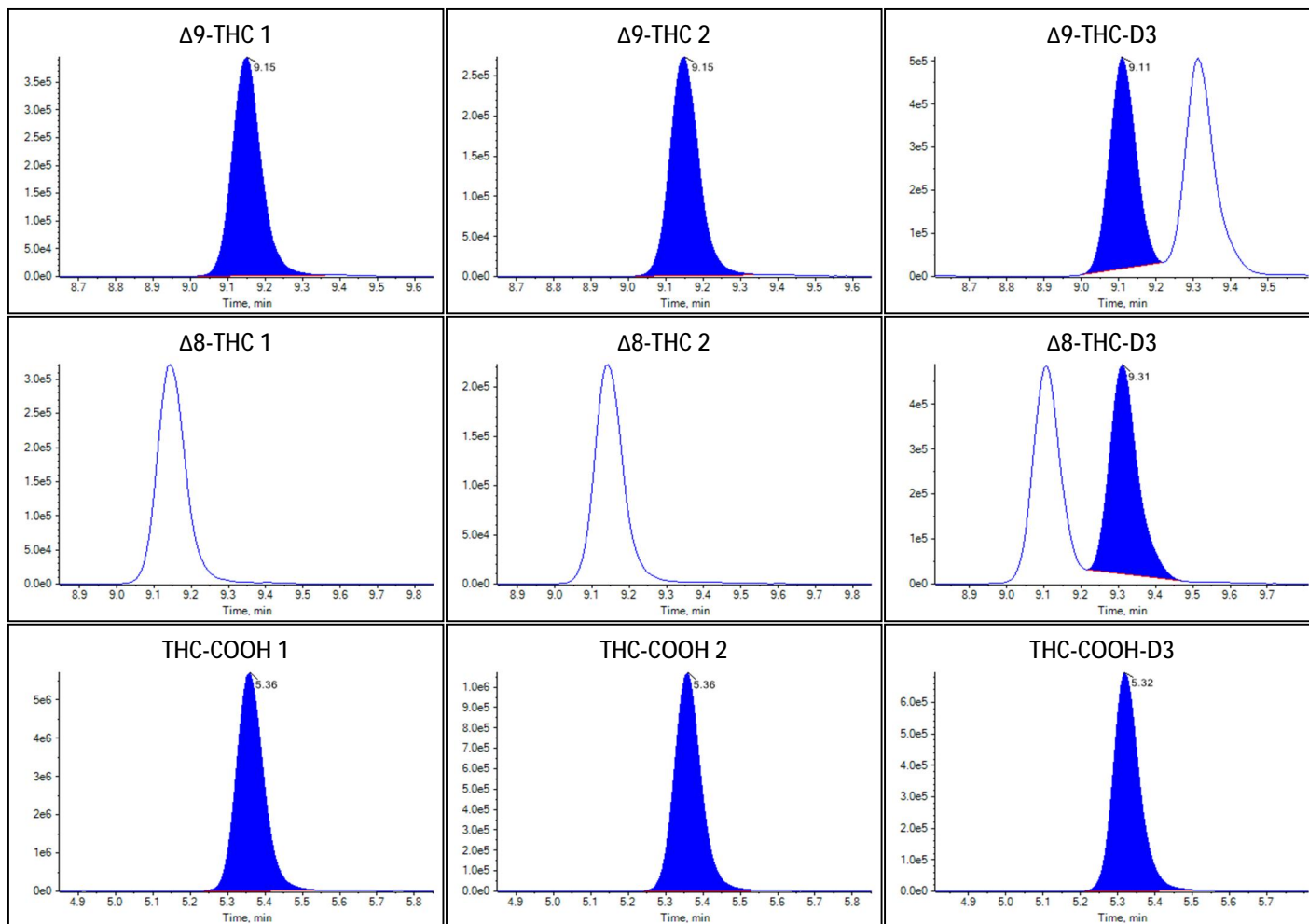
Identification Summary: THC-2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.664(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Not calculated)	0.695(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	N/A(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.183(Not calculated)

Peak Review: THC-2



Peak Review: THC-2





Sample Summary

Sample Name	THC-3
Acquisition Date/Time	2022-09-24T07:03:58
Acquisition Method	THC.dam
Batch Name	20220923SB Florida.dab
Results Table	20220923SB Florida
Sample Type	Unknown
File Name	20220923SB.wiff
Position	58
Sample Comment	

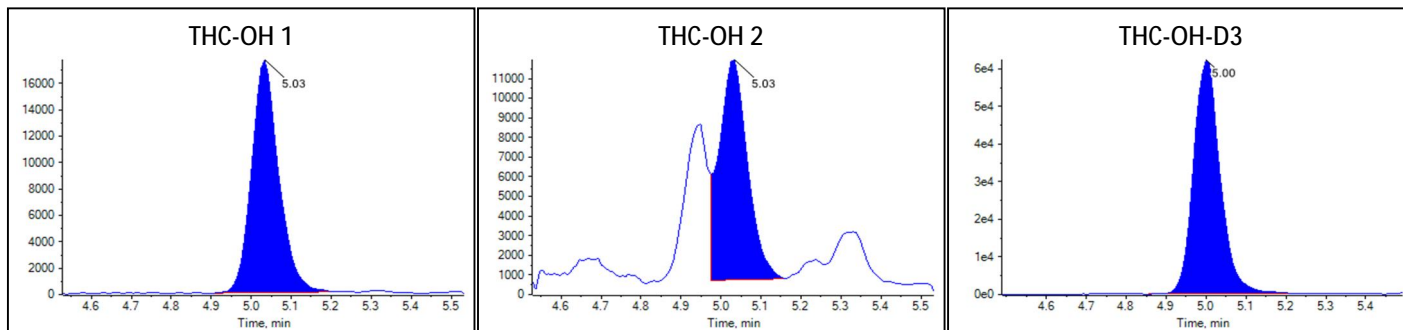
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.2882	2.52		
Δ^9 -THC	0.1653	5.81		
Δ^8 -THC	N/A	N/A		
THC-COOH	1.8822	18.65		

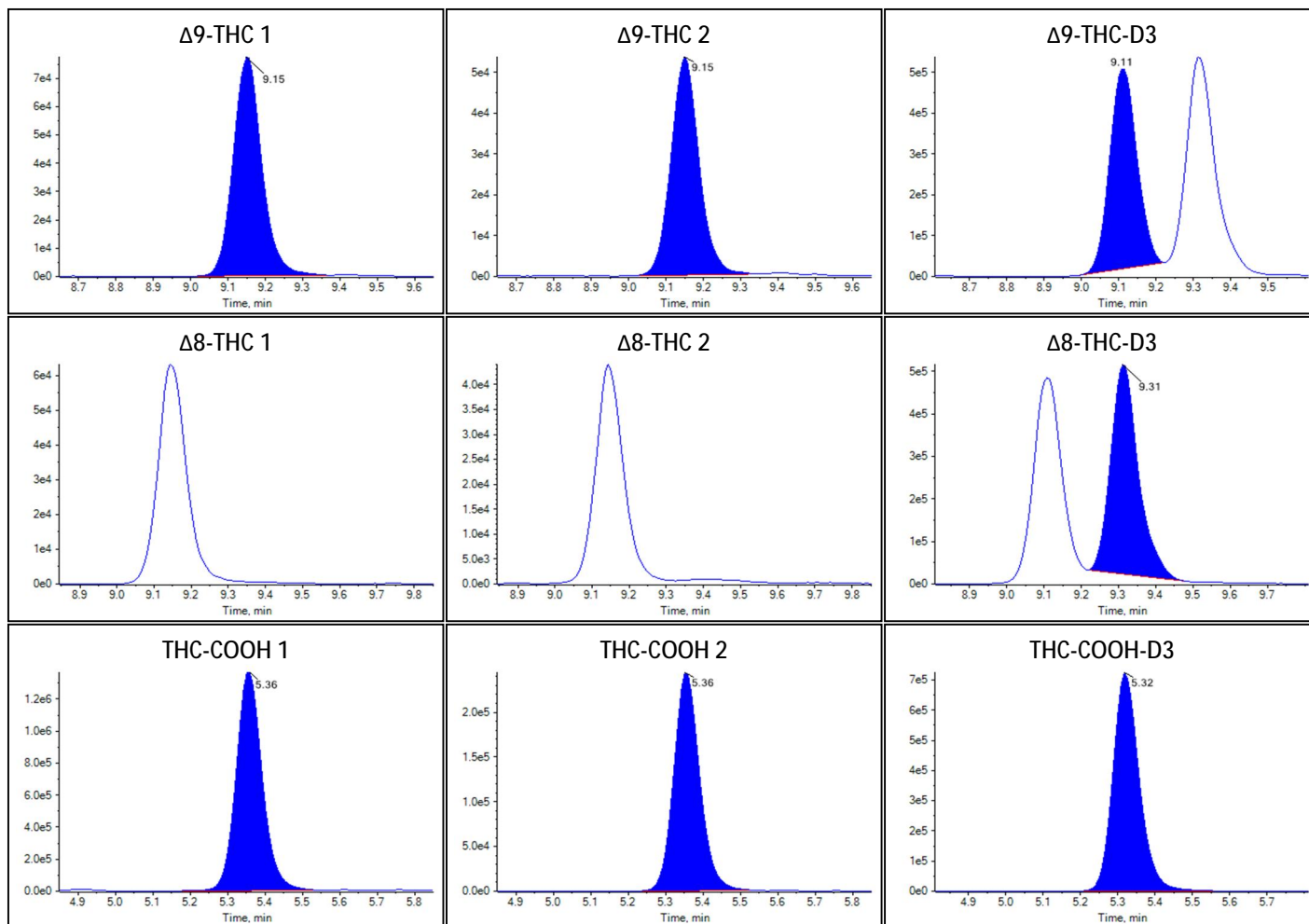
Identification Summary: THC-3

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.670(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Not calculated)	0.679(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	N/A(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.176(Not calculated)

Peak Review: THC-3



Peak Review: THC-3





Sample Summary

Sample Name	FTC-2
Acquisition Date/Time	2022-09-24T07:18:03
Acquisition Method	THC.dam
Batch Name	20220923SB Florida.dab
Results Table	20220923SB Florida
Sample Type	Unknown
File Name	20220923SB.wiff
Position	59
Sample Comment	

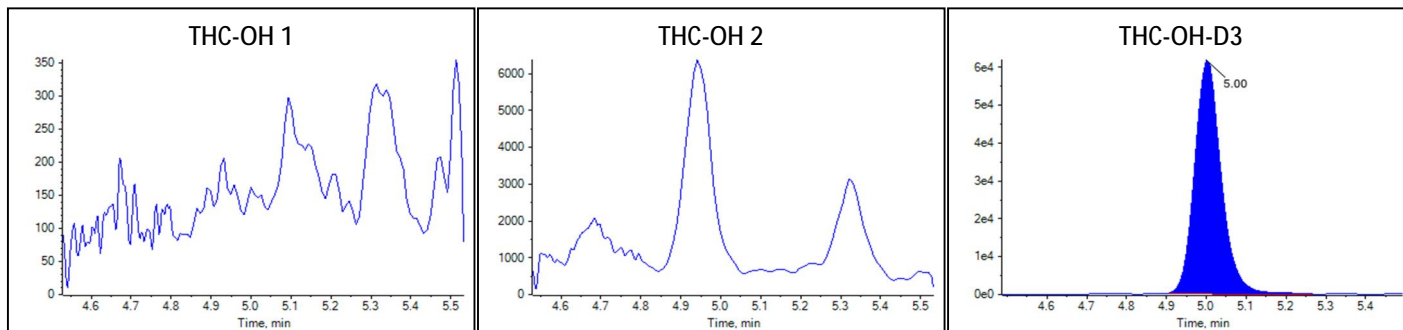
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	0.5984	20.95		
Δ^8 -THC	N/A	N/A		
THC-COOH	13.2258	132.70		

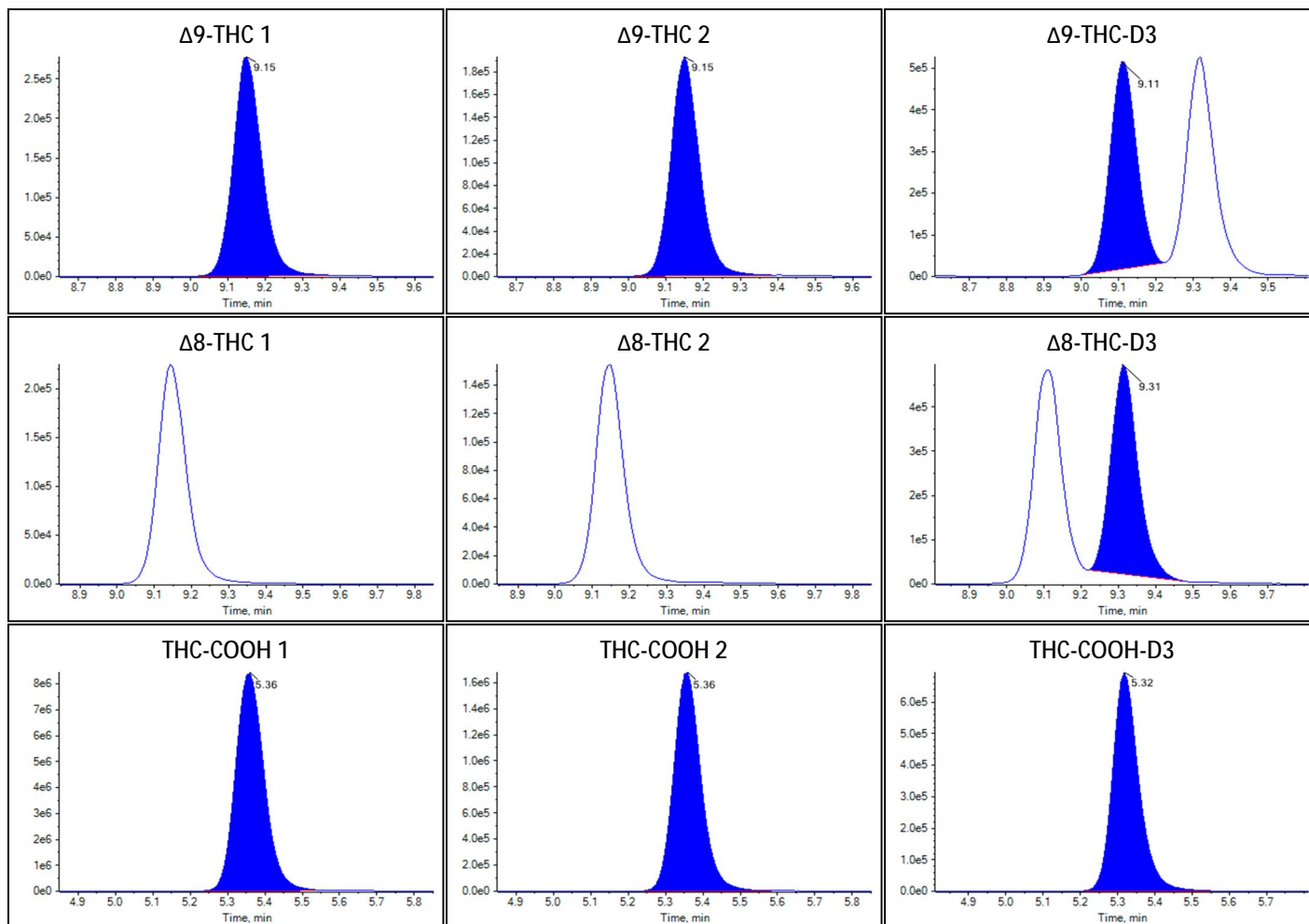
Identification Summary: FTC-2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	N/A(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Not calculated)	0.689(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	N/A(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.190(Not calculated)

Peak Review: FTC-2



Peak Review: FTC-2





Sample Summary

Sample Name	FTC-7
Acquisition Date/Time	2022-09-24T07:32:12
Acquisition Method	THC.dam
Batch Name	20220923SB Florida.dab
Results Table	20220923SB Florida
Sample Type	Unknown
File Name	20220923SB.wiff
Position	60
Sample Comment	

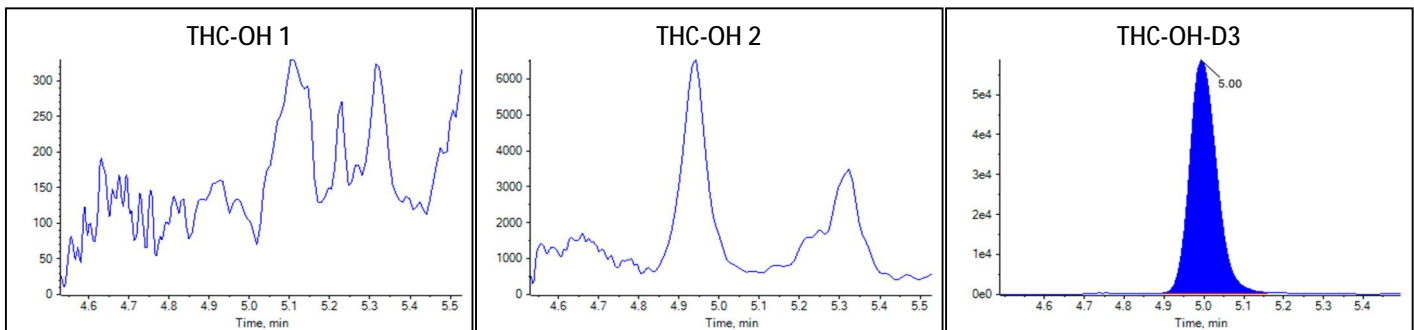
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	N/A	N/A		

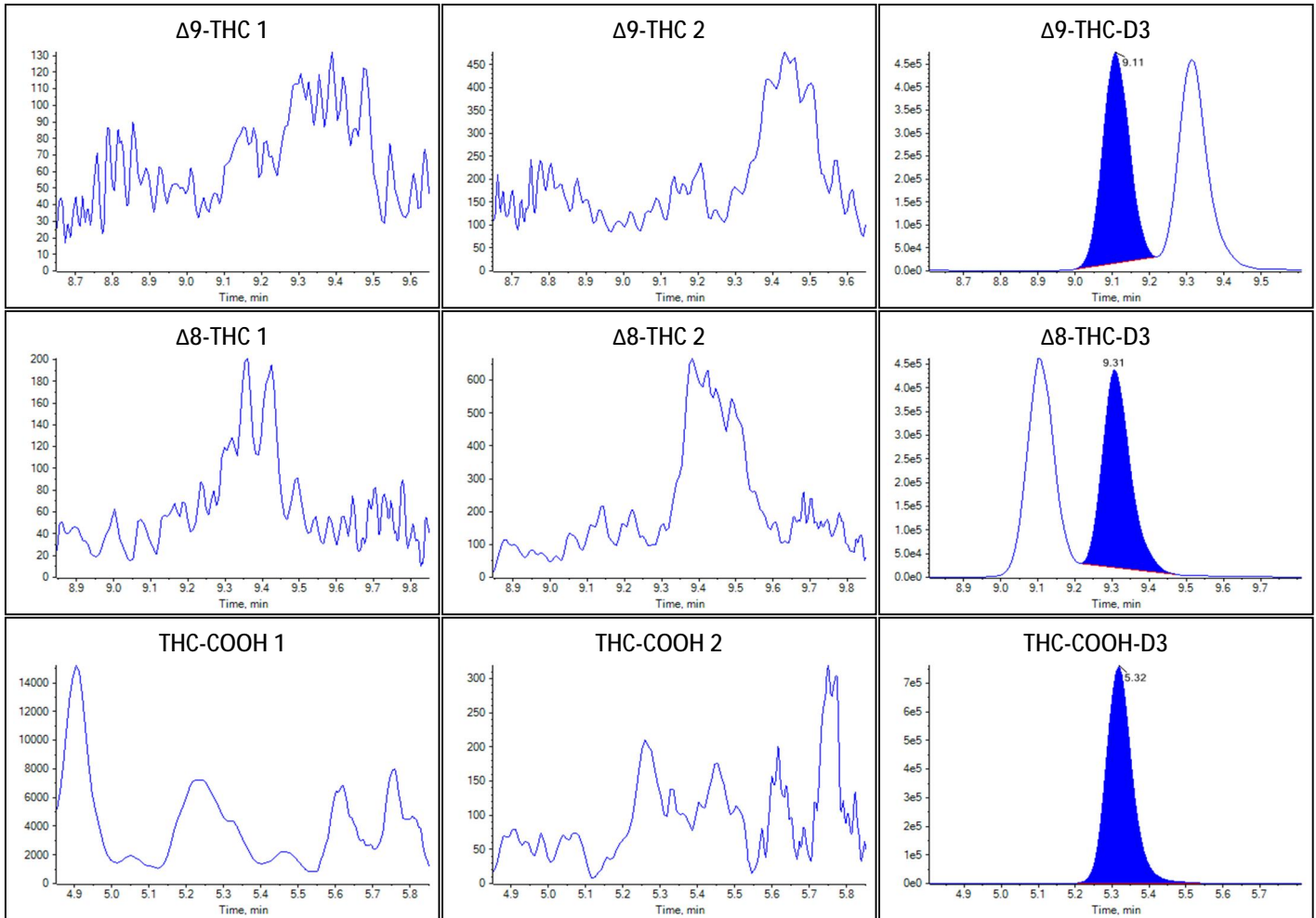
Identification Summary: FTC-7

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	N/A(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	N/A(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	N/A(Not calculated)
THC-COOH 1	343.0 / 299.1	N/A(Not calculated)	
THC-COOH 2	343.0 / 191.0	N/A(Not calculated)	N/A(Not calculated)

Peak Review: FTC-7



Peak Review: FTC-7





Sample Summary

Sample Name	FTC-9
Acquisition Date/Time	2022-09-24T07:46:17
Acquisition Method	THC.dam
Batch Name	20220923SB Florida.dab
Results Table	20220923SB Florida
Sample Type	Unknown
File Name	20220923SB.wiff
Position	61
Sample Comment	

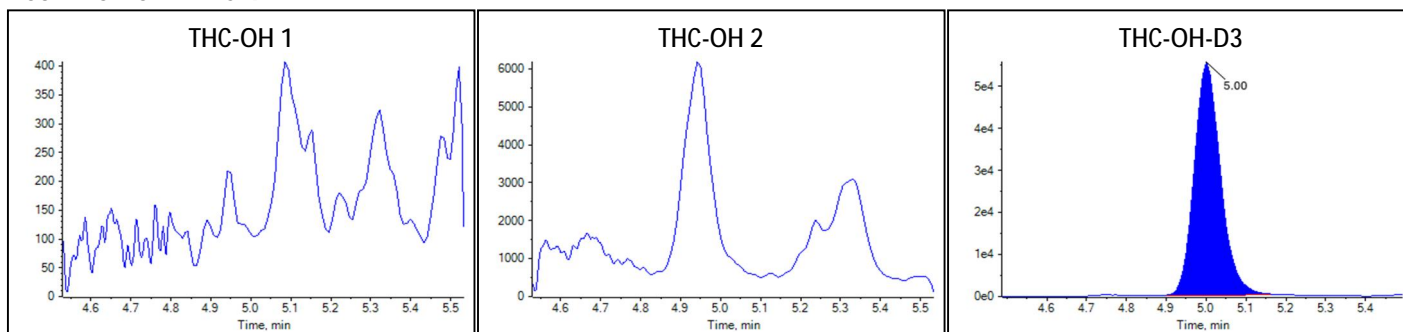
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	N/A	N/A		

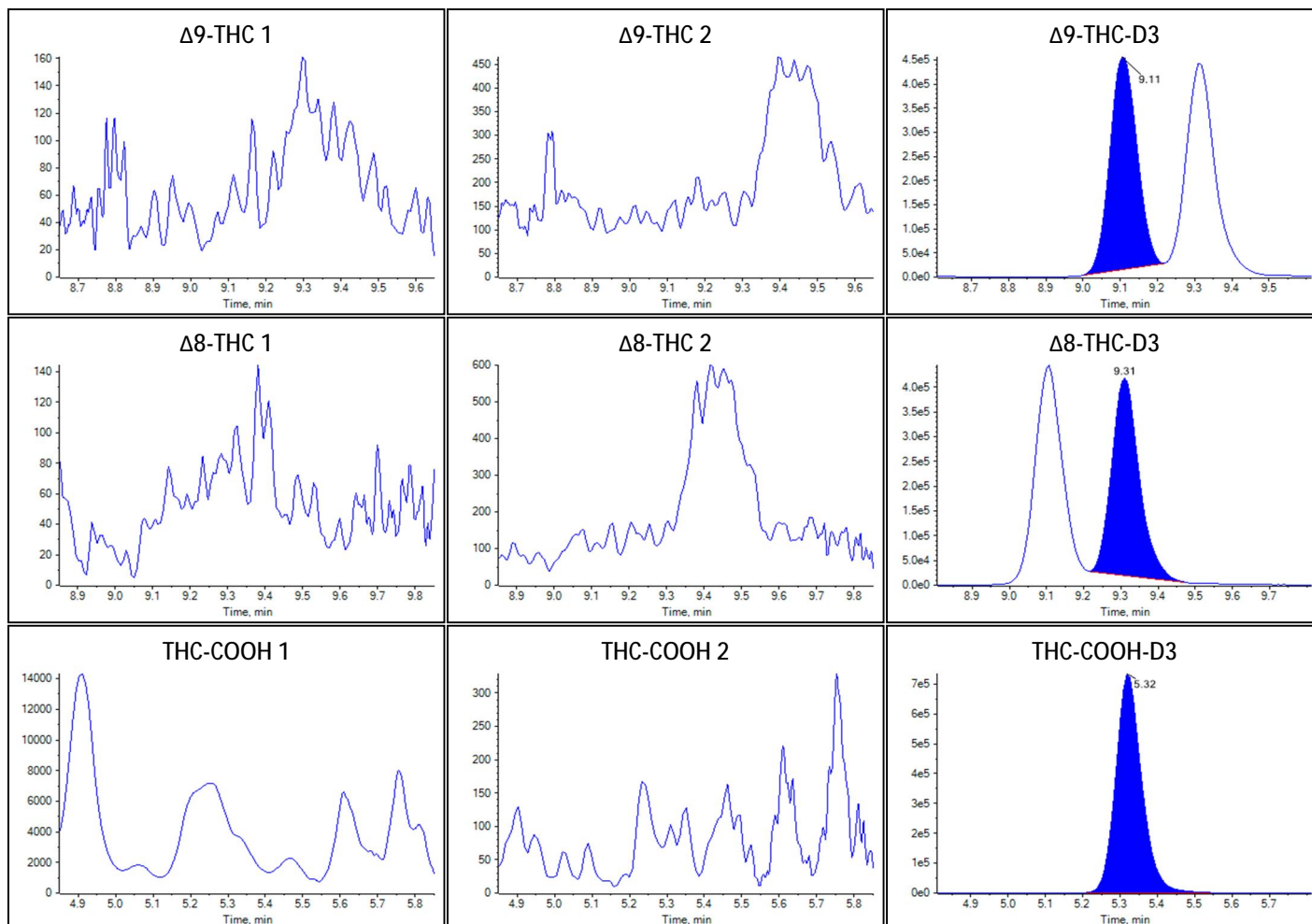
Identification Summary: FTC-9

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A(Not calculated)	
THC-OH 2	331.1 / 105.1	N/A(Not calculated)	N/A(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	N/A(Not calculated)	N/A(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	N/A(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	N/A(Not calculated)	N/A(Not calculated)
THC-COOH 1	343.0 / 299.1	N/A(Not calculated)	
THC-COOH 2	343.0 / 191.0	N/A(Not calculated)	N/A(Not calculated)

Peak Review: FTC-9



Peak Review: FTC-9





Sample Summary

Sample Name	High Control
Acquisition Date/Time	2022-09-24T08:00:22
Acquisition Method	THC.dam
Batch Name	20220923SB Florida.dab
Results Table	20220923SB Florida
Sample Type	Quality Control
File Name	20220923SB.wiff
Position	62
Sample Comment	

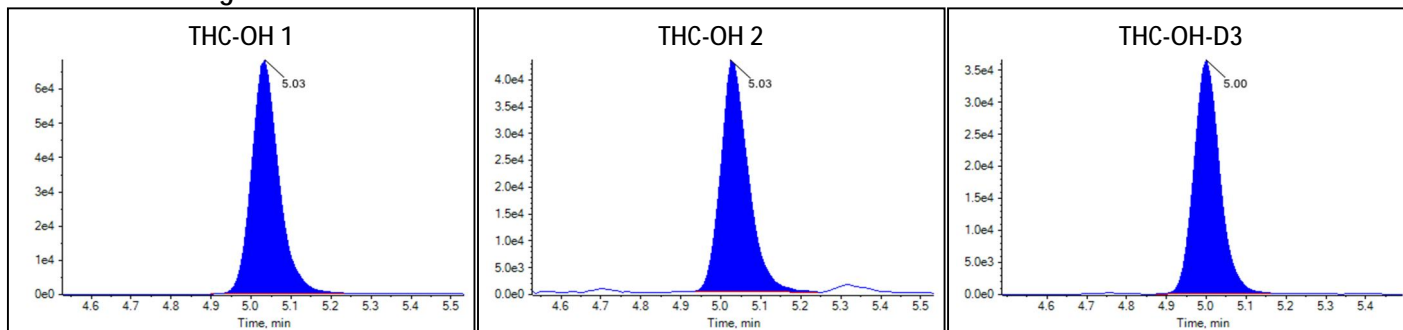
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.9675	16.97		
Δ^9 -THC	2.4599	89.46		
Δ^8 -THC	1.8616	95.22		
THC-COOH	7.8031	78.18		

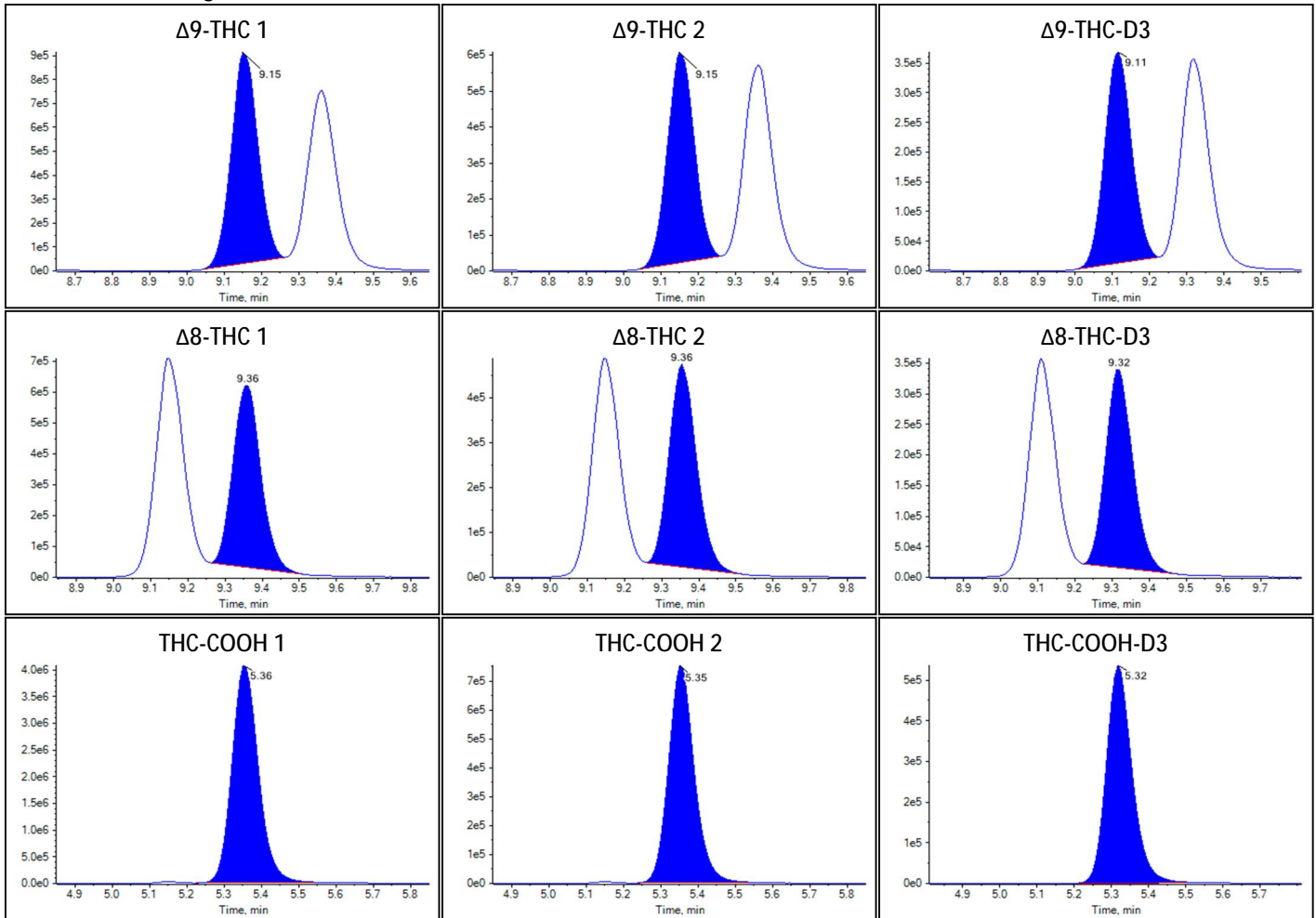
Identification Summary: High Control

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Not calculated)	
THC-OH 2	331.1 / 105.1	1.010(Not calculated)	0.639(Not calculated)
Δ^9 -THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Not calculated)	0.671(Not calculated)
Δ^8 -THC 1	315.1 / 193.1	1.000(Not calculated)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Not calculated)	0.757(Not calculated)
THC-COOH 1	343.0 / 299.1	1.010(Not calculated)	
THC-COOH 2	343.0 / 191.0	1.010(Not calculated)	0.180(Not calculated)

Peak Review: High Control



Peak Review: High Control



Cannabinoid Lot Log	
Date	9-23-22
Analyst	TSF
Checked tubes	
Sample preparation	
Sample Pipette	007
Blank Blood	FU1
Standards	9-14-22 JLG
Controls	9-14-22 JLG
Standards/Controls Pipette	064
Internal Standard	9-14-22 SB
Internal Standard Pipette	103
0.1 % formic acid in H ₂ O	9-16-22 DMC
Extraction	
SLE Cartridge	820-2-26
MTBE	L322A-4
B: 0.1% formic acid in ACN	8-29-22 SB
A: 0.1 % formic acid in H ₂ O	9-21-22 DMC
Instrumentation	
A: 0.1 % formic acid in H ₂ O	9-21-22 DMC
B: 0.1% formic acid in ACN	9-13-22 JLG
Column Serial Number	USCGC17817
Instrument	21-1
Sequence Check:	
Notes: FL samples + PT's	



Sample Summary

Sample Name	Standard 1
Acquisition Date/Time	2022-09-23T17:12:50
Acquisition Method	THC.dam
Batch Name	20220923TSF Florida.dab
Results Table	20220923TSF
Sample Type	Standard
File Name	20220923TSF.wiff
Position	1
Sample Comment	

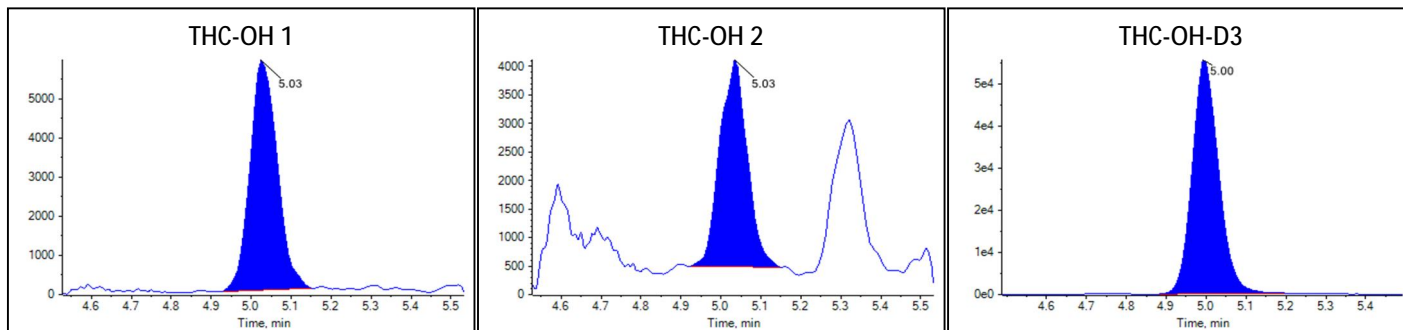
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.1088	1.073		
Δ^9 -THC	0.0308	1.068		
Δ^8 -THC	0.0236	1.106		
THC-COOH	0.5338	5.038		

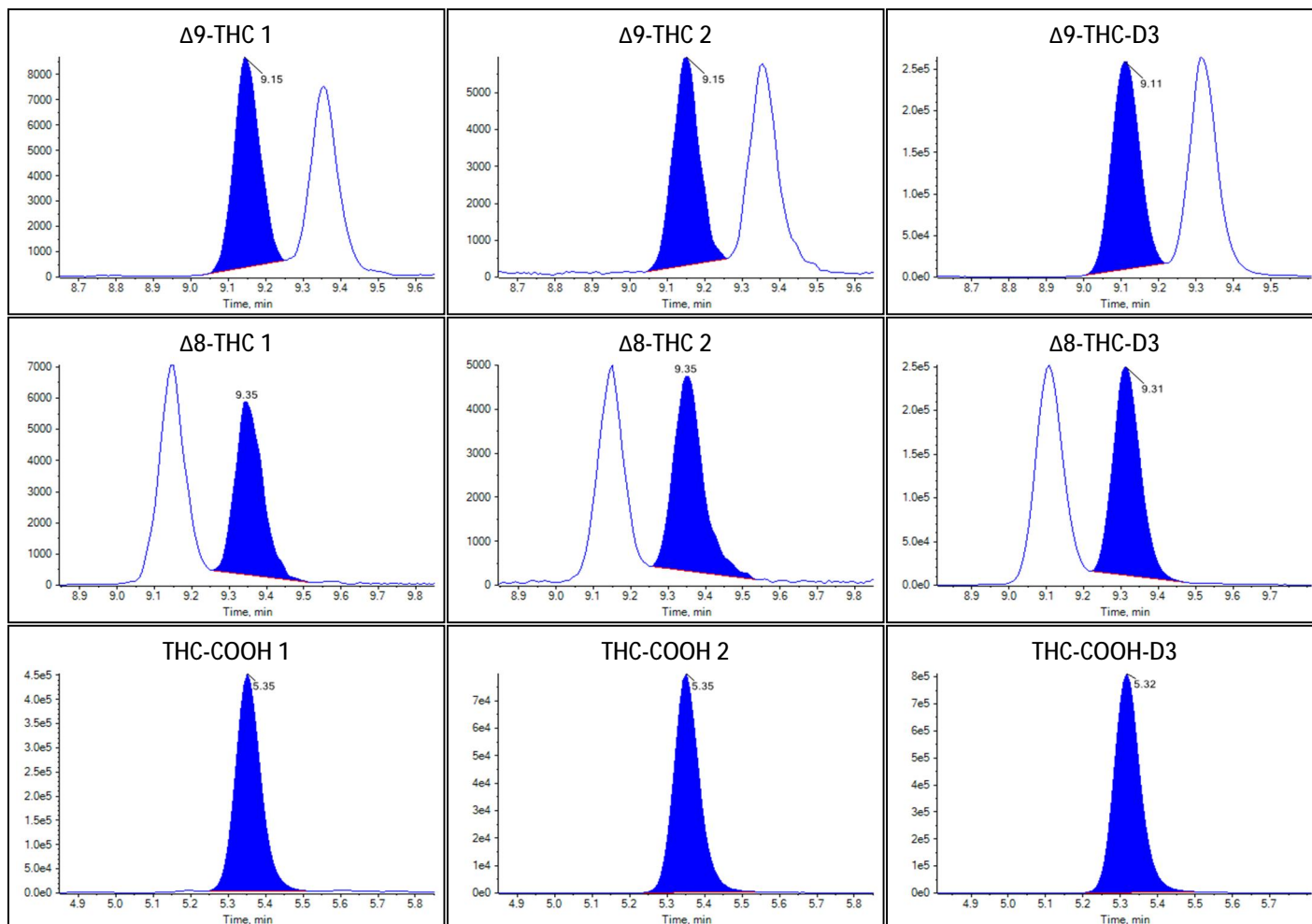
Identification Summary: Standard 1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.007(Pass)	
THC-OH 2	331.1 / 105.1	1.007(Pass)	0.620(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.004(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.004(Pass)	0.693(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.004(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.004(Pass)	0.858(Pass)
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.006(Pass)	0.179(Pass)

Peak Review: Standard 1



Peak Review: Standard 1





Sample Summary

Sample Name	Standard 2
Acquisition Date/Time	2022-09-23T17:26:55
Acquisition Method	THC.dam
Batch Name	20220923TSF Florida.dab
Results Table	20220923TSF
Sample Type	Standard
File Name	20220923TSF.wiff
Position	2
Sample Comment	

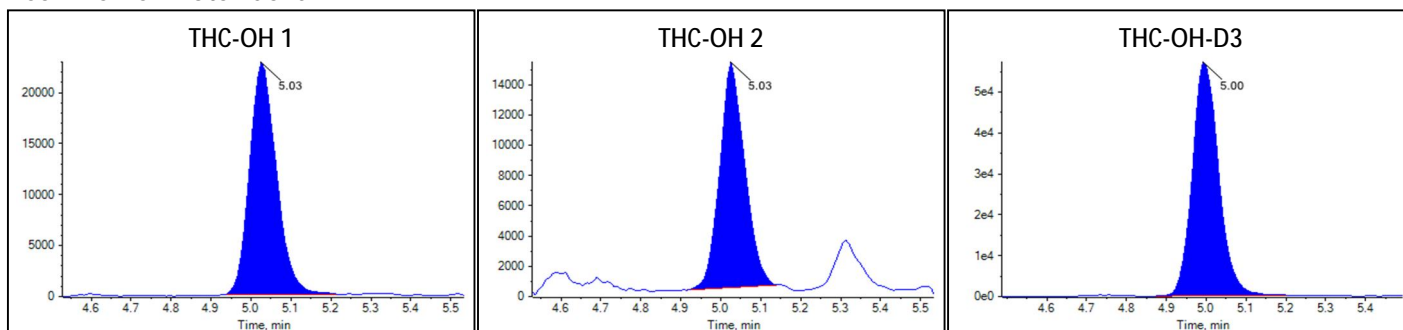
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.4047	3.665		
Δ 9-THC	0.1382	4.634		
Δ 8-THC	0.1053	4.458		
THC-COOH	0.9402	9.325		

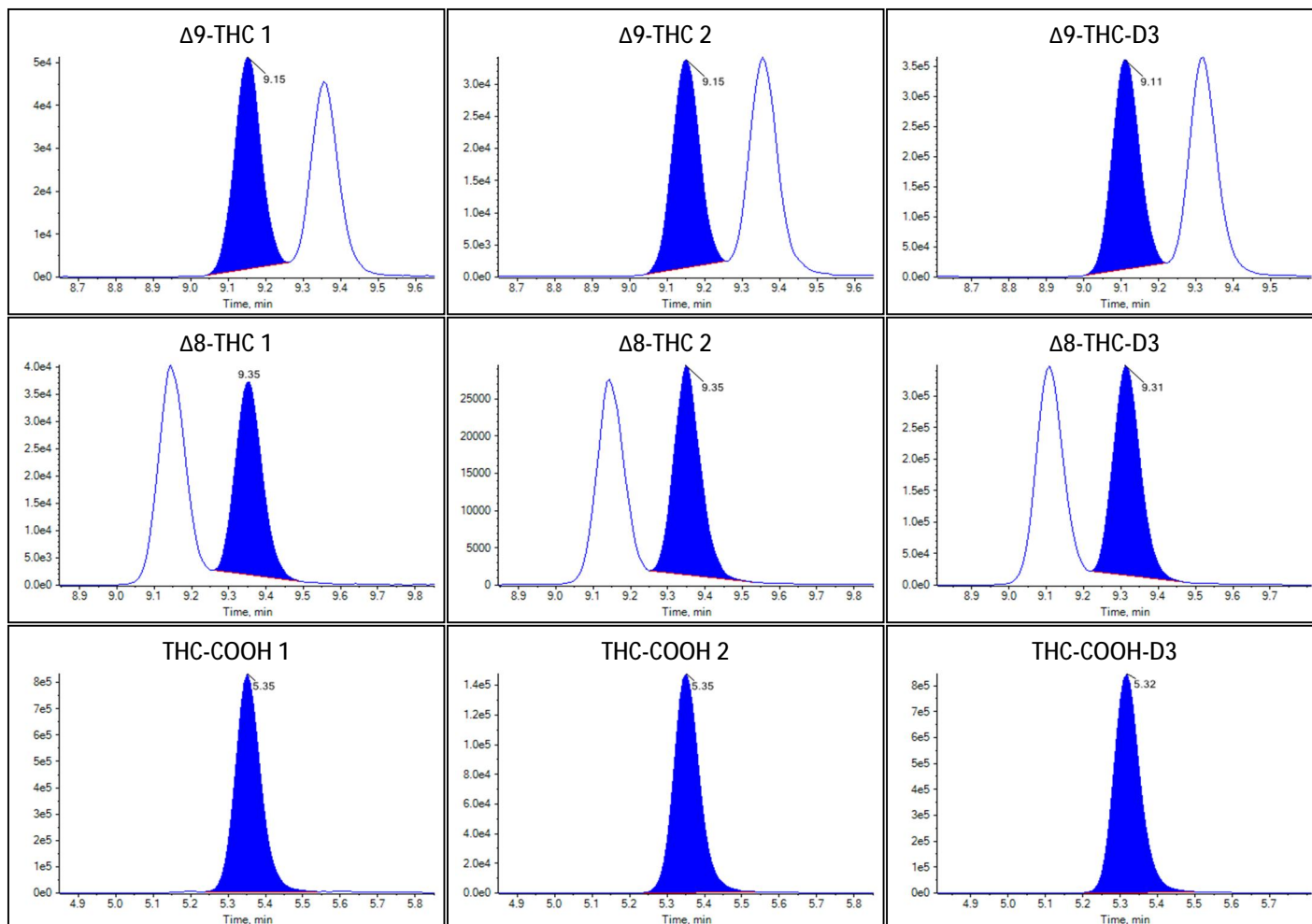
Identification Summary: Standard 2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.006(Pass)	
THC-OH 2	331.1 / 105.1	1.006(Pass)	0.609(Pass)
Δ 9-THC 1	315.1 / 193.1	1.004(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.004(Pass)	0.674(Pass)
Δ 8-THC 1	315.1 / 193.1	1.004(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.004(Pass)	0.782(Pass)
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.007(Pass)	0.182(Pass)

Peak Review: Standard 2



Peak Review: Standard 2





Sample Summary

Sample Name	Standard 3
Acquisition Date/Time	2022-09-23T17:41:00
Acquisition Method	THC.dam
Batch Name	20220923TSF Florida.dab
Results Table	20220923TSF
Sample Type	Standard
File Name	20220923TSF.wiff
Position	3
Sample Comment	

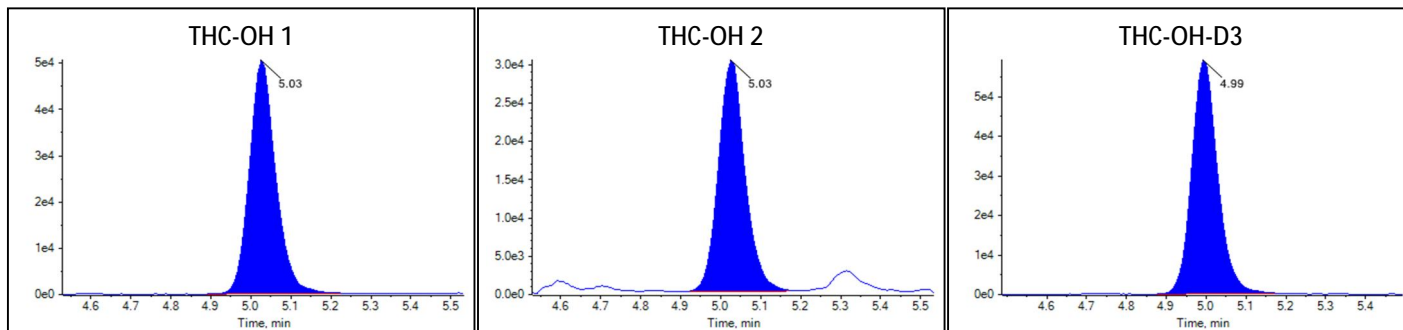
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.8639	7.689		
Δ^9 -THC	0.8807	29.923		
Δ^8 -THC	0.6648	29.067		
THC-COOH	2.5778	26.602		

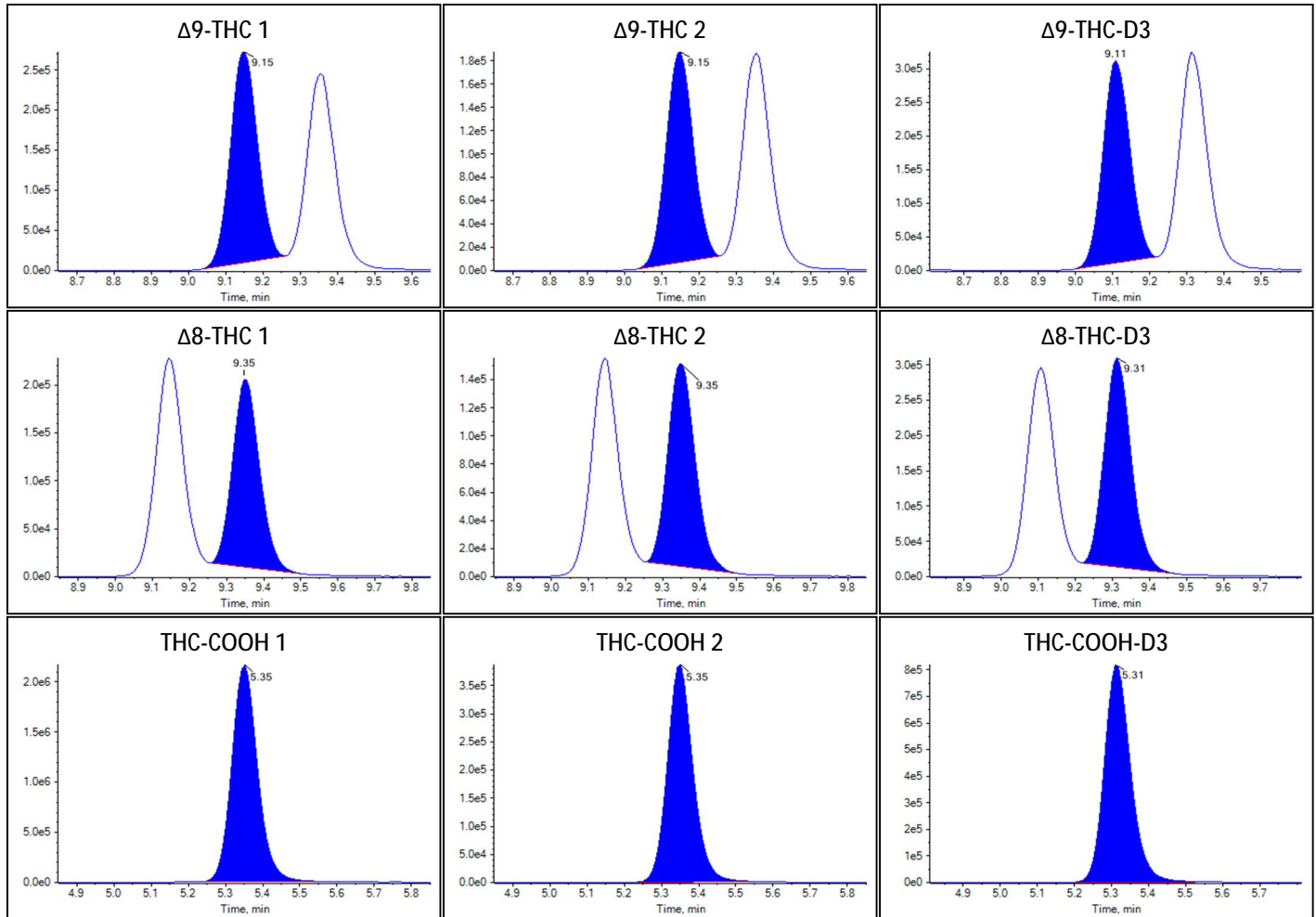
Identification Summary: Standard 3

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.007(Pass)	
THC-OH 2	331.1 / 105.1	1.006(Pass)	0.606(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.004(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.004(Pass)	0.688(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.004(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.004(Pass)	0.747(Pass)
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.007(Pass)	0.179(Pass)

Peak Review: Standard 3



Peak Review: Standard 3





Sample Summary

Sample Name	Standard 4
Acquisition Date/Time	2022-09-23T17:55:09
Acquisition Method	THC.dam
Batch Name	20220923TSF Florida.dab
Results Table	20220923TSF
Sample Type	Standard
File Name	20220923TSF.wiff
Position	4
Sample Comment	

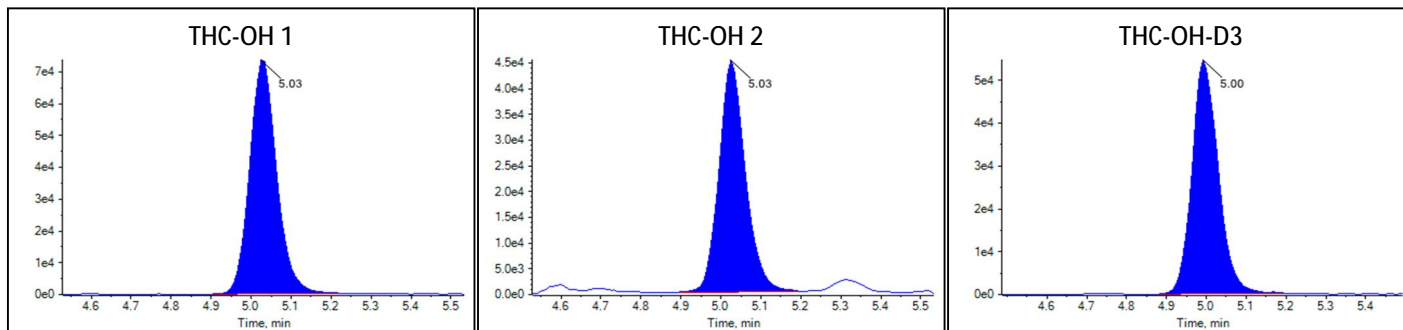
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.3758	12.174		
Δ^9 -THC	1.4313	49.475		
Δ^8 -THC	1.0953	50.565		
THC-COOH	4.8180	50.234		

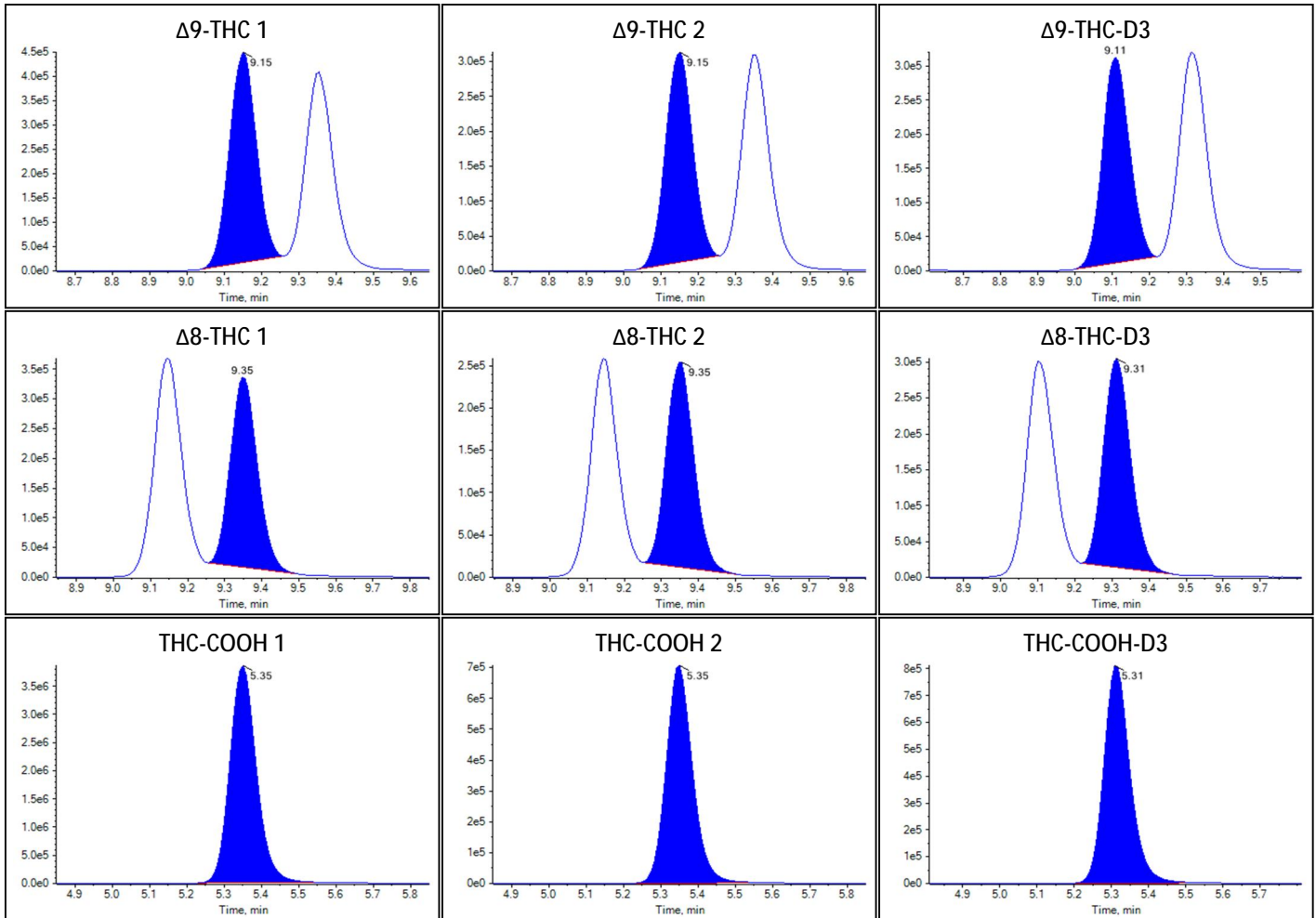
Identification Summary: Standard 4

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.007(Pass)	
THC-OH 2	331.1 / 105.1	1.006(Pass)	0.600(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.004(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.004(Pass)	0.702(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.004(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.004(Pass)	0.769(Pass)
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.007(Pass)	0.181(Pass)

Peak Review: Standard 4



Peak Review: Standard 4





Sample Summary

Sample Name	Standard 5
Acquisition Date/Time	2022-09-23T18:09:14
Acquisition Method	THC.dam
Batch Name	20220923TSF Florida.dab
Results Table	20220923TSF
Sample Type	Standard
File Name	20220923TSF.wiff
Position	5
Sample Comment	

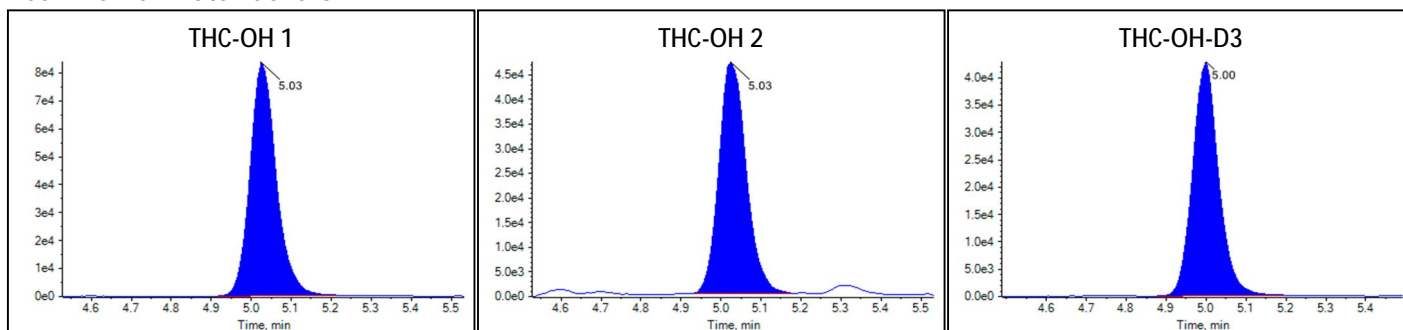
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.9525	17.228		
Δ^9 -THC	2.0447	72.167		
Δ^8 -THC	1.4989	73.779		
THC-COOH	7.2568	75.963		

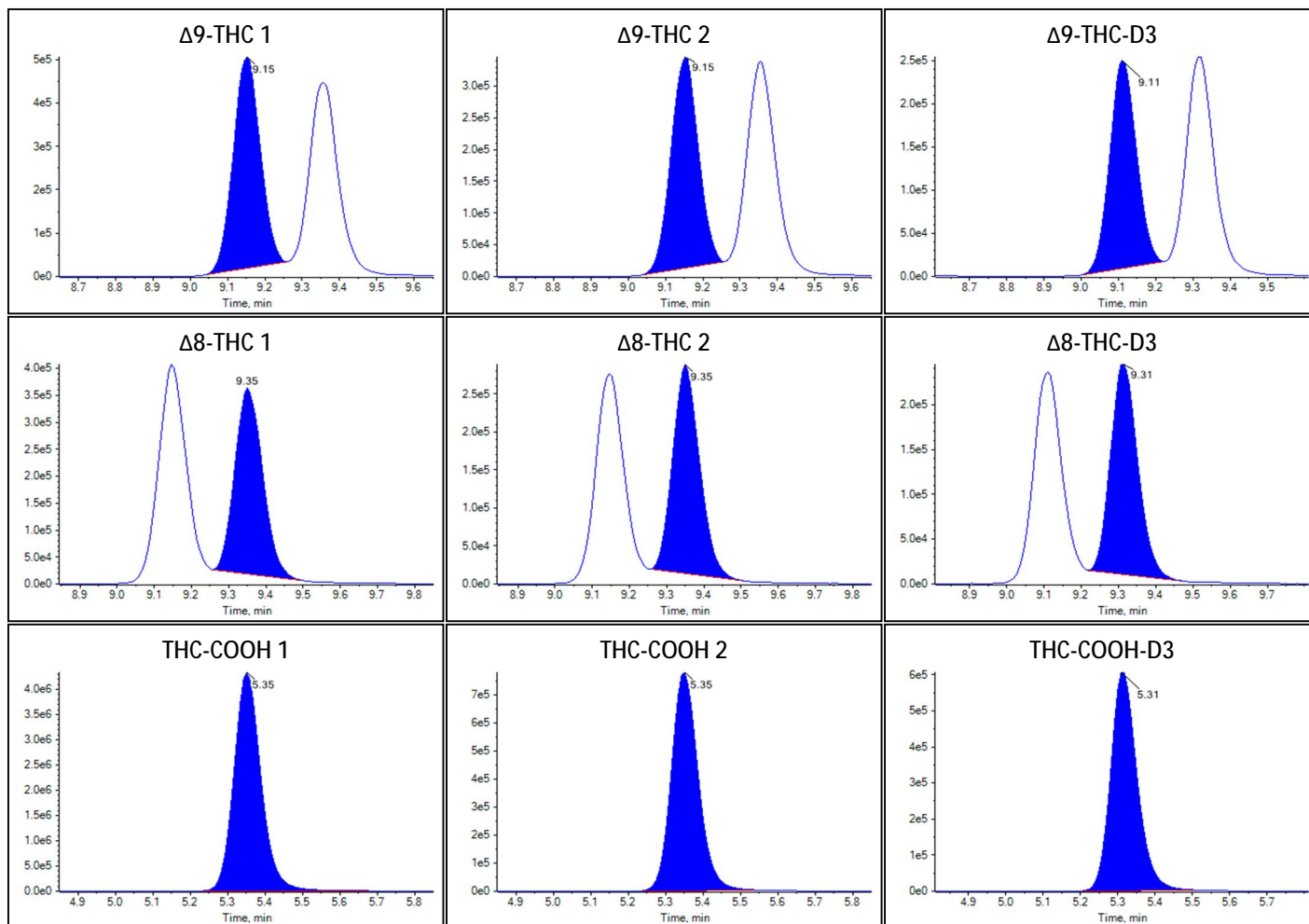
Identification Summary: Standard 5

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.006(Pass)	
THC-OH 2	331.1 / 105.1	1.006(Pass)	0.588(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.004(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.004(Pass)	0.691(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.004(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.004(Pass)	0.766(Pass)
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.007(Pass)	0.179(Pass)

Peak Review: Standard 5



Peak Review: Standard 5





Sample Summary

Sample Name	Standard 6
Acquisition Date/Time	2022-09-23T18:23:17
Acquisition Method	THC.dam
Batch Name	20220923TSF Florida.dab
Results Table	20220923TSF
Sample Type	Standard
File Name	20220923TSF.wiff
Position	6
Sample Comment	

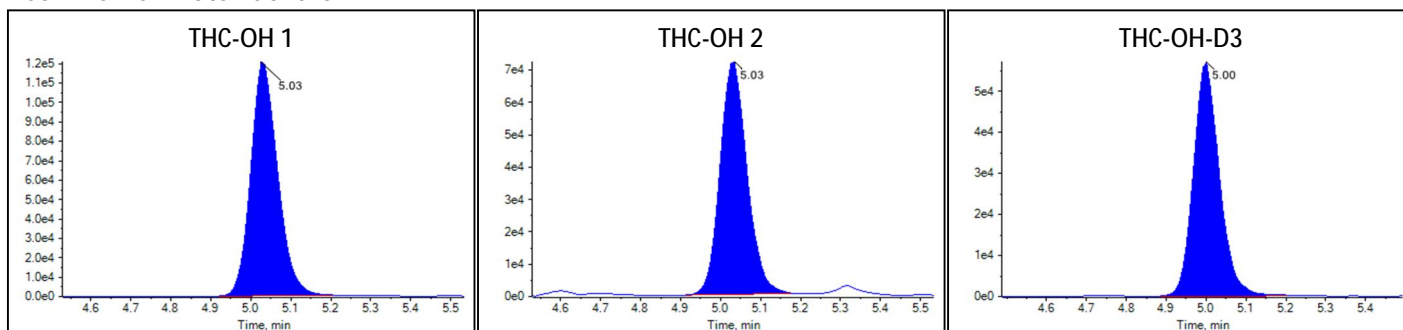
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.1742	19.171		
Δ^9 -THC	2.7277	98.729		
Δ^8 -THC	1.8369	96.822		
THC-COOH	9.3305	97.839		

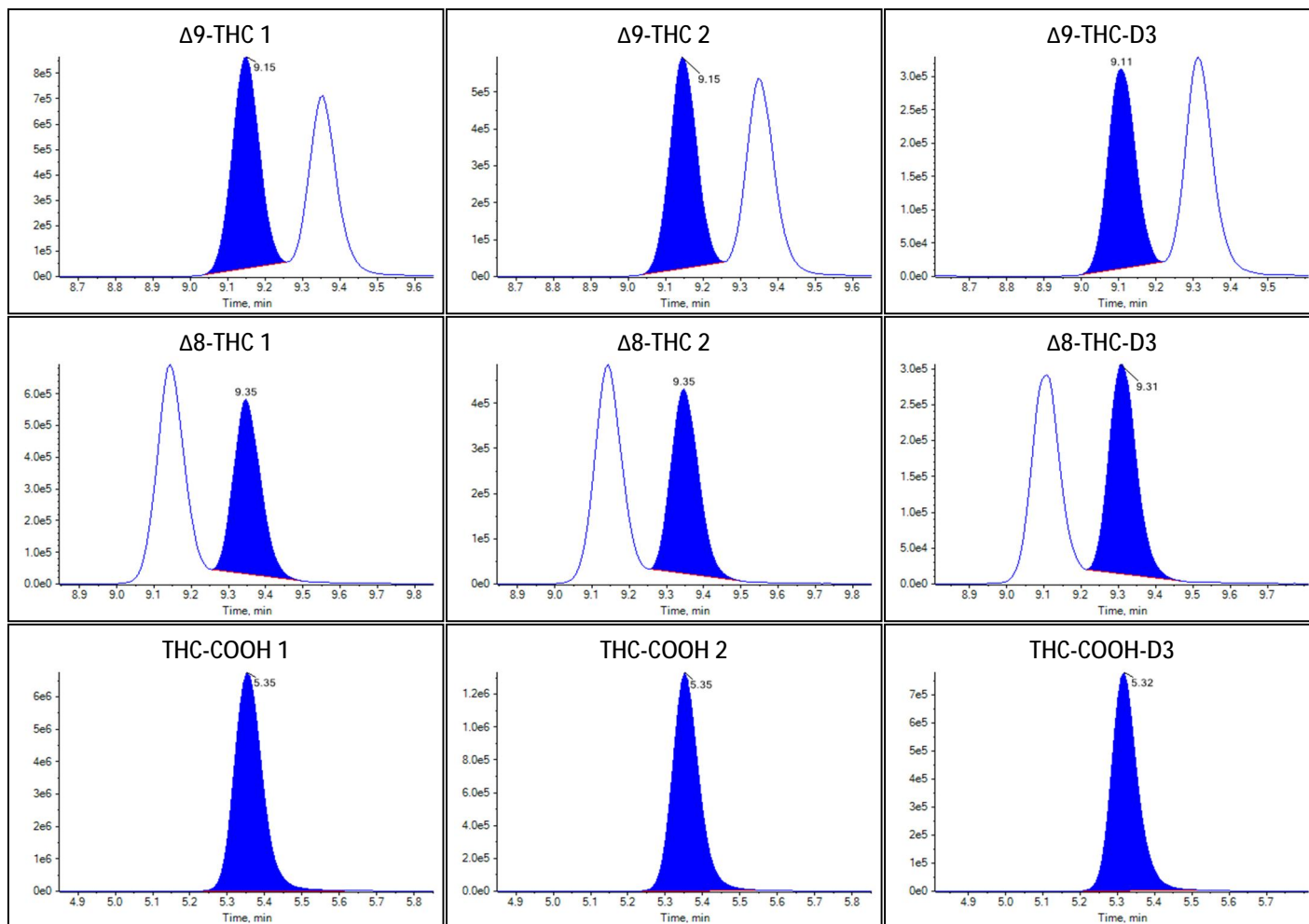
Identification Summary: Standard 6

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.006(Pass)	
THC-OH 2	331.1 / 105.1	1.006(Pass)	0.599(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.004(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.004(Pass)	0.685(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.004(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.004(Pass)	0.759(Pass)
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.007(Pass)	0.185(Pass)

Peak Review: Standard 6



Peak Review: Standard 6





Sample Summary

Sample Name	Negative
Acquisition Date/Time	2022-09-23T18:37:19
Acquisition Method	THC.dam
Batch Name	20220923TSF Florida.dab
Results Table	20220923TSF
Sample Type	Quality Control
File Name	20220923TSF.wiff
Position	7
Sample Comment	

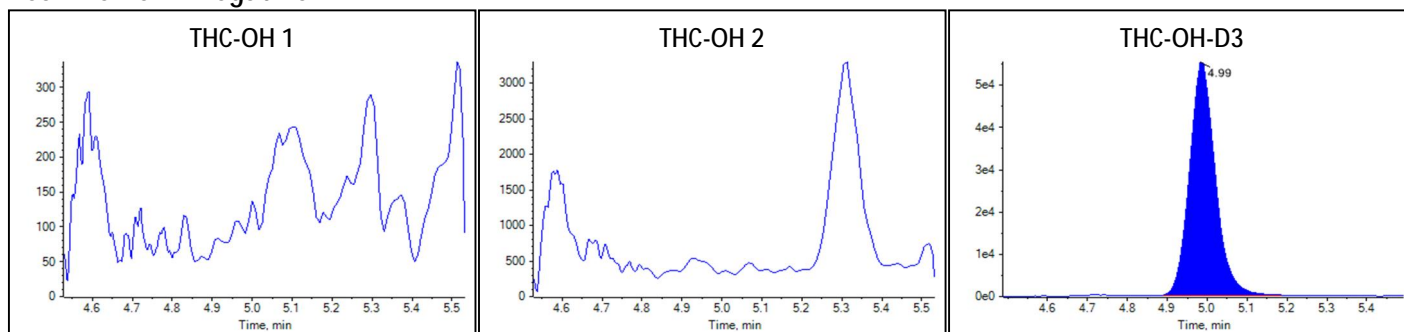
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	N/A	N/A		

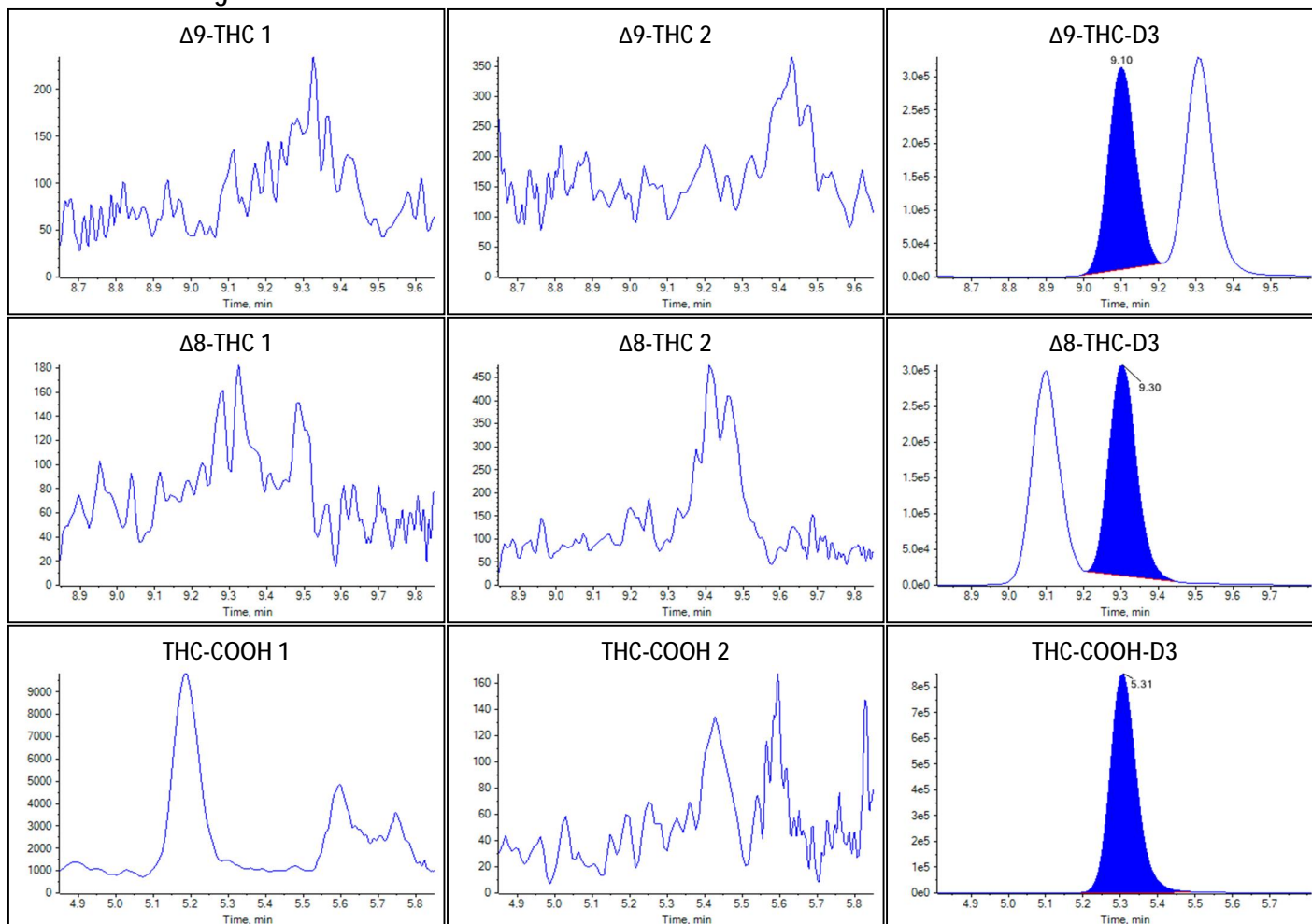
Identification Summary: Negative

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ^9 -THC 1	315.1 / 193.1	N/A	
Δ^9 -THC 2	315.1 / 123.0	N/A	N/A
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	N/A	
THC-COOH 2	343.0 / 191.0	N/A	N/A

Peak Review: Negative



Peak Review: Negative





Sample Summary

Sample Name	Medium Control
Acquisition Date/Time	2022-09-23T18:51:25
Acquisition Method	THC.dam
Batch Name	20220923TSF Florida.dab
Results Table	20220923TSF
Sample Type	Quality Control
File Name	20220923TSF.wiff
Position	8
Sample Comment	

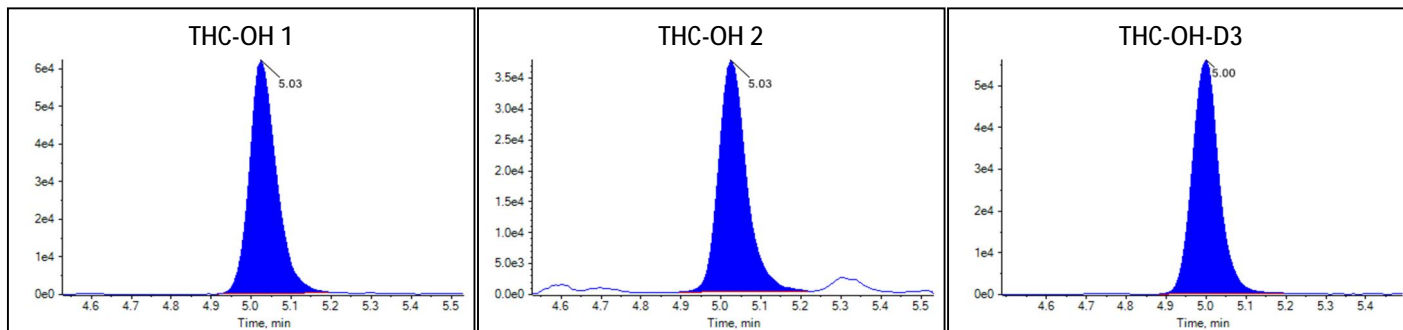
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.1212	9.944		
Δ^9 -THC	1.1952	41.001		
Δ^8 -THC	0.9139	41.172		
THC-COOH	4.0698	42.341		

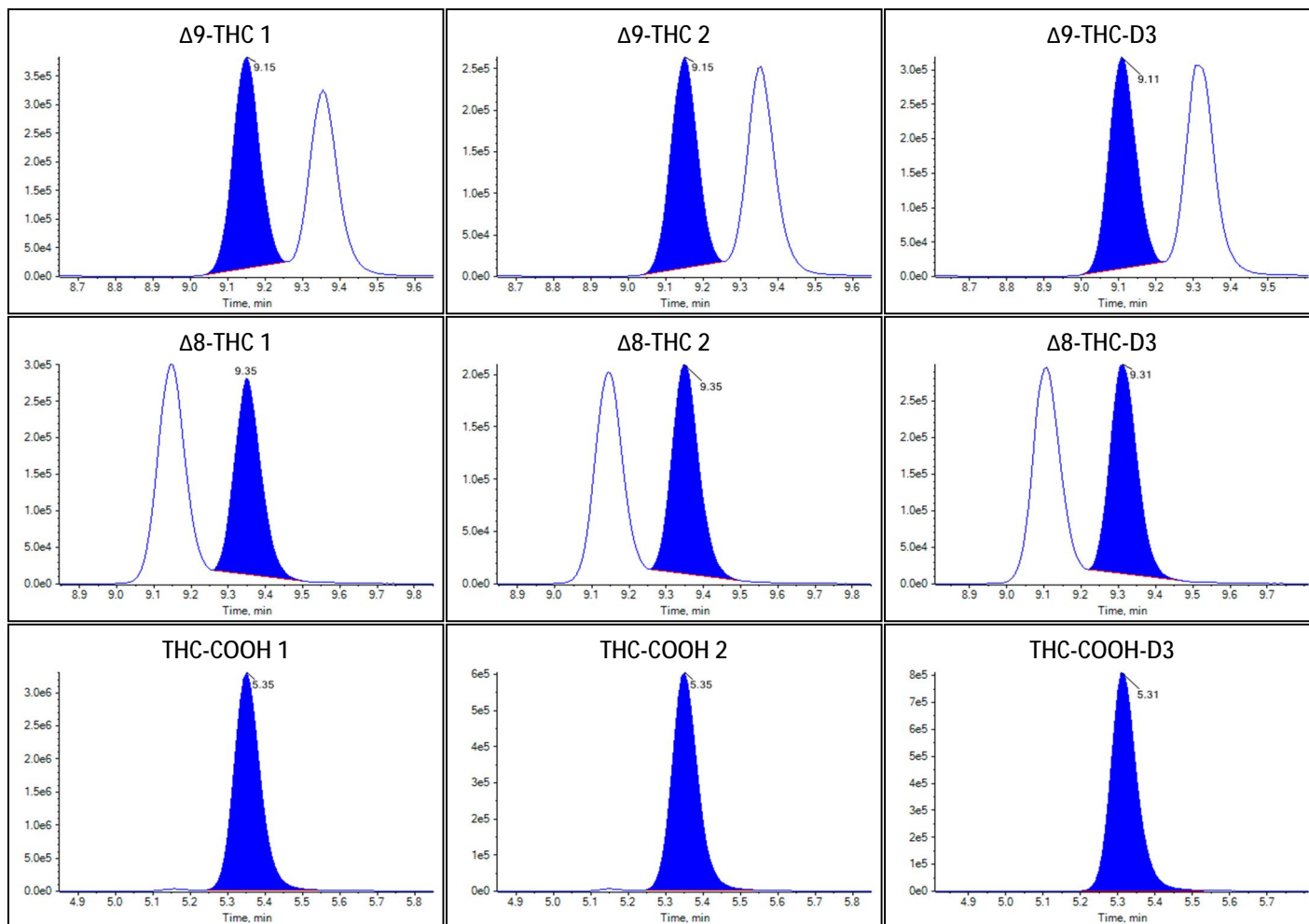
Identification Summary: Medium Control

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.006(Pass)	
THC-OH 2	331.1 / 105.1	1.006(Pass)	0.624(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.004(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.004(Pass)	0.687(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.004(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.004(Pass)	0.759(Pass)
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.007(Pass)	0.180(Pass)

Peak Review: Medium Control



Peak Review: Medium Control





Sample Summary

Sample Name	5uL injection STD 1
Acquisition Date/Time	2022-09-23T19:05:30
Acquisition Method	THC.dam
Batch Name	20220923TSF Florida.dab
Results Table	20220923TSF
Sample Type	Unknown
File Name	20220923TSF.wiff
Position	1
Sample Comment	

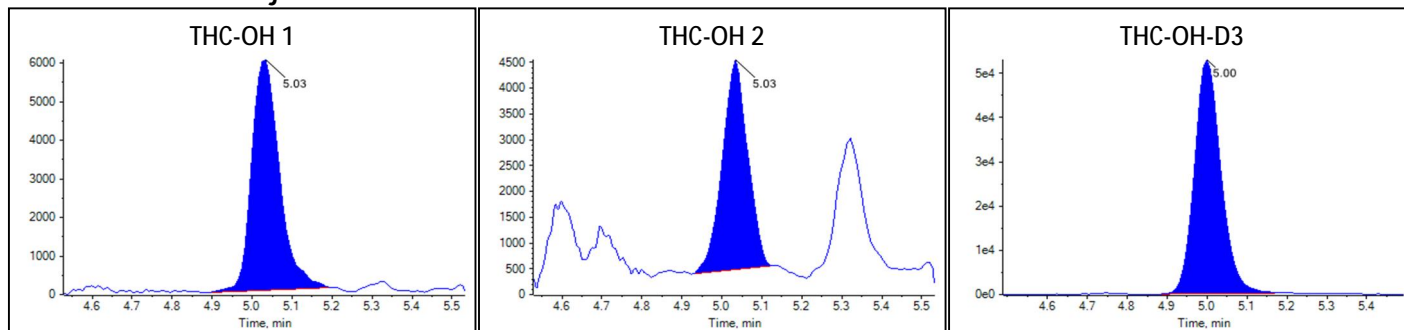
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.1187	1.159		
Δ 9-THC	0.0310	1.074		
Δ 8-THC	0.0245	1.145		
THC-COOH	0.5282	4.979		

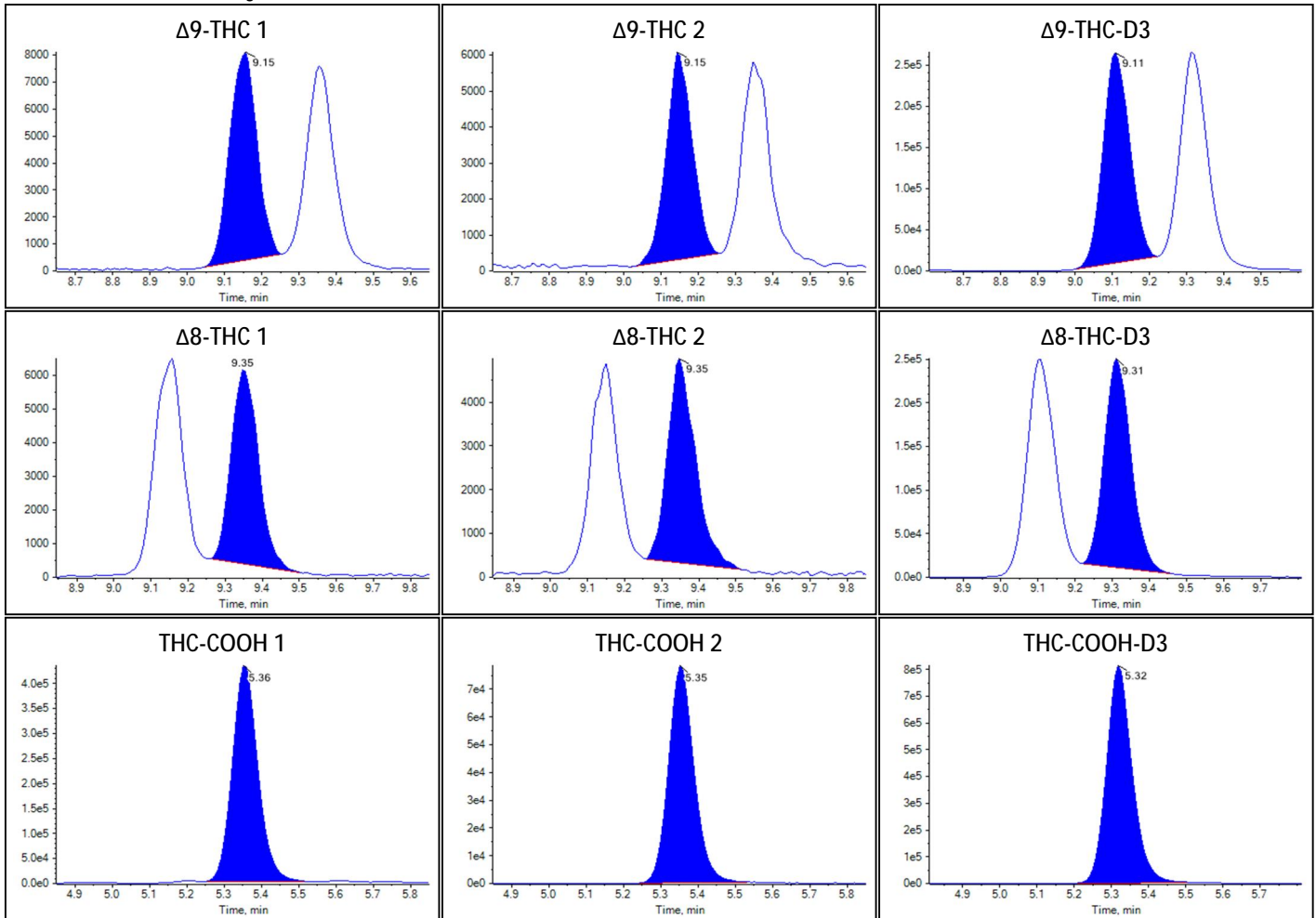
Identification Summary: 5uL injection STD 1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.006(Pass)	
THC-OH 2	331.1 / 105.1	1.007(Pass)	0.620(Pass)
Δ 9-THC 1	315.1 / 193.1	1.004(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.004(Pass)	0.713(Pass)
Δ 8-THC 1	315.1 / 193.1	1.004(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.004(Pass)	0.825(Pass)
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.006(Pass)	0.181(Pass)

Peak Review: 5uL injection STD 1



Peak Review: 5uL injection STD 1





Sample Summary

Sample Name	F1
Acquisition Date/Time	2022-09-23T19:19:35
Acquisition Method	THC.dam
Batch Name	20220923TSF Florida.dab
Results Table	20220923TSF
Sample Type	Unknown
File Name	20220923TSF.wiff
Position	9
Sample Comment	

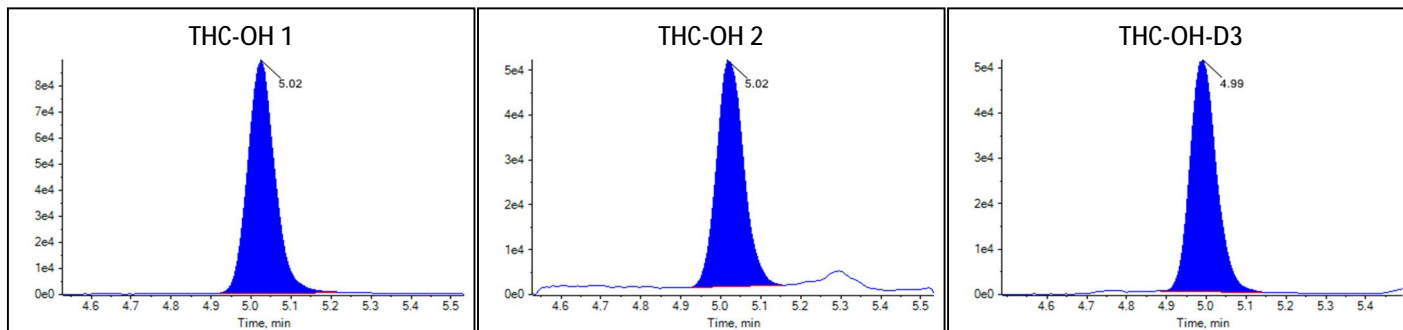
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.7953	15.850		
Δ 9-THC	0.1522	5.100		
Δ 8-THC	N/A	N/A		
THC-COOH	28.1191	296.049		

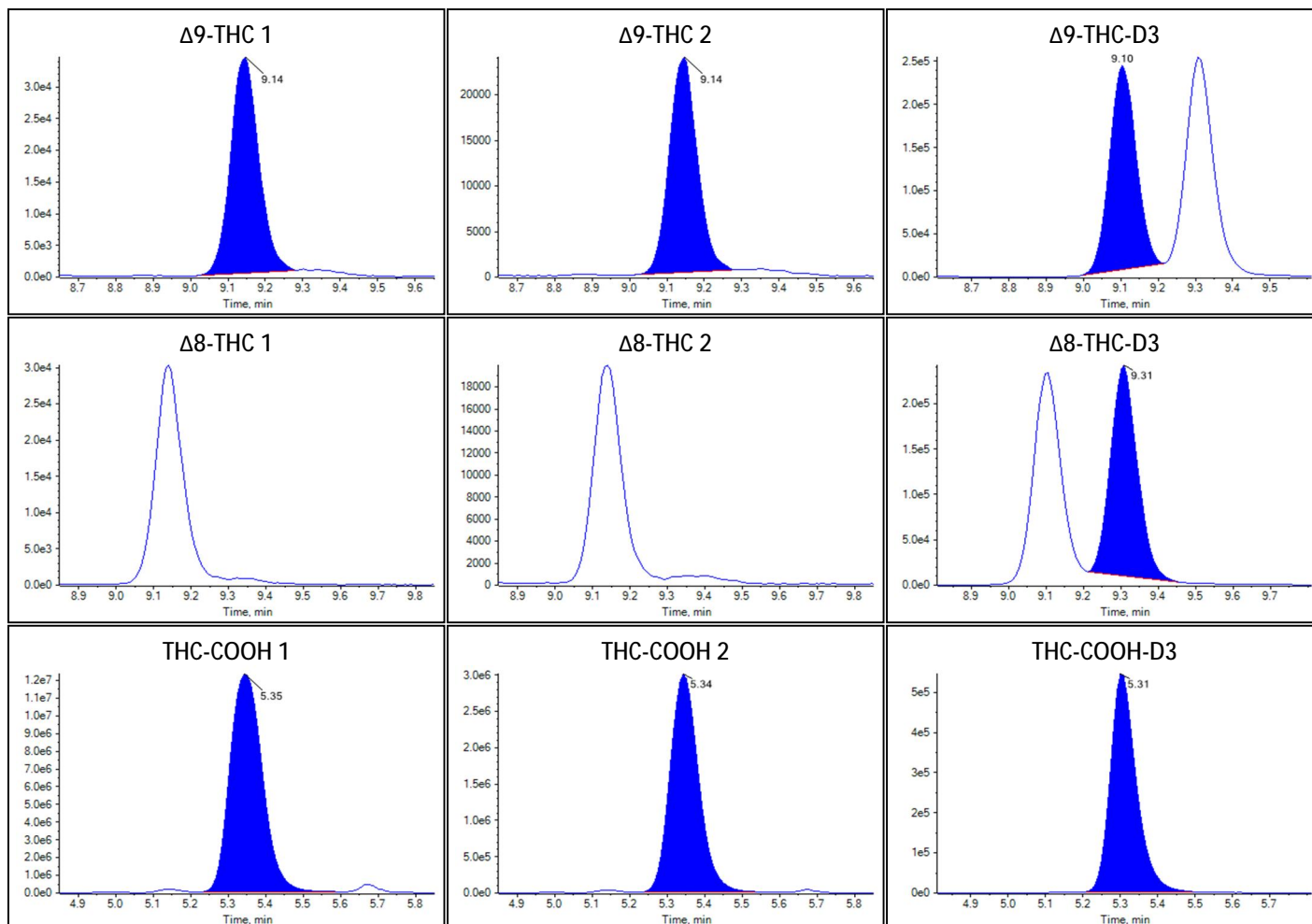
Identification Summary: F1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.007(Pass)	
THC-OH 2	331.1 / 105.1	1.006(Pass)	0.564(Pass)
Δ 9-THC 1	315.1 / 193.1	1.004(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.004(Pass)	0.688(Pass)
Δ 8-THC 1	315.1 / 193.1	N/A	
Δ 8-THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.008(Pass)	
THC-COOH 2	343.0 / 191.0	1.007(Pass)	0.215(Pass)

Peak Review: F1



Peak Review: F1





Sample Summary

Sample Name	F2
Acquisition Date/Time	2022-09-23T19:33:40
Acquisition Method	THC.dam
Batch Name	20220923TSF Florida.dab
Results Table	20220923TSF
Sample Type	Unknown
File Name	20220923TSF.wiff
Position	10
Sample Comment	

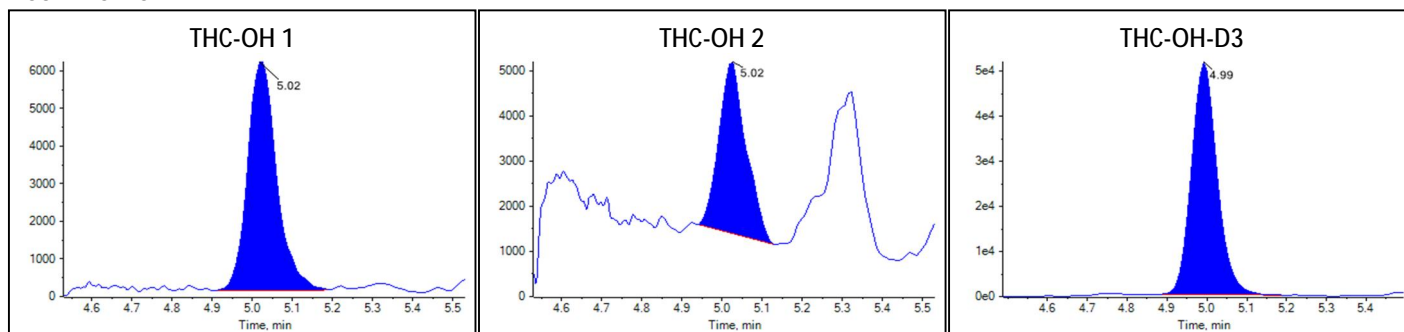
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.1332	1.286		
Δ^9 -THC	0.0245	0.859		
Δ^8 -THC	N/A	N/A		
THC-COOH	3.8874	40.417		

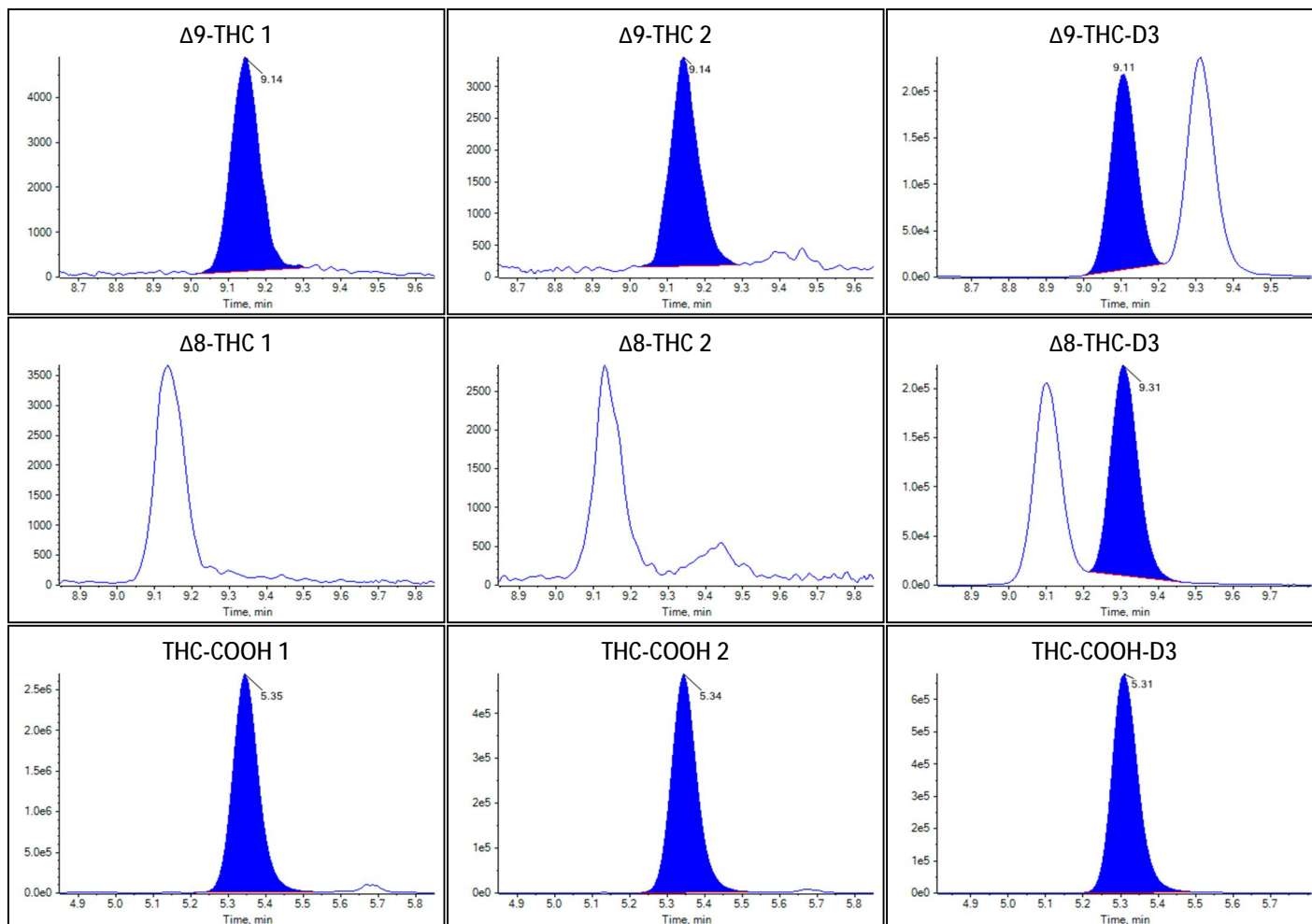
Identification Summary: F2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.006(Pass)	
THC-OH 2	331.1 / 105.1	1.006(Pass)	0.579(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.004(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.004(Pass)	0.684(Pass)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.006(Pass)	0.180(Pass)

Peak Review: F2



Peak Review: F2





Sample Summary

Sample Name	F3
Acquisition Date/Time	2022-09-23T19:47:46
Acquisition Method	THC.dam
Batch Name	20220923TSF Florida.dab
Results Table	20220923TSF
Sample Type	Unknown
File Name	20220923TSF.wiff
Position	11
Sample Comment	

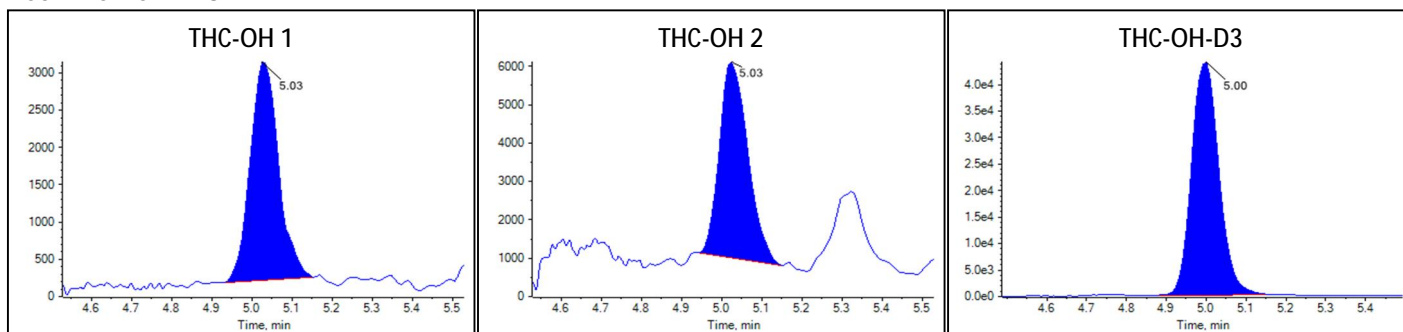
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.0683	0.718		
Δ 9-THC	0.0270	0.944		
Δ 8-THC	N/A	N/A		
THC-COOH	8.4765	88.830		

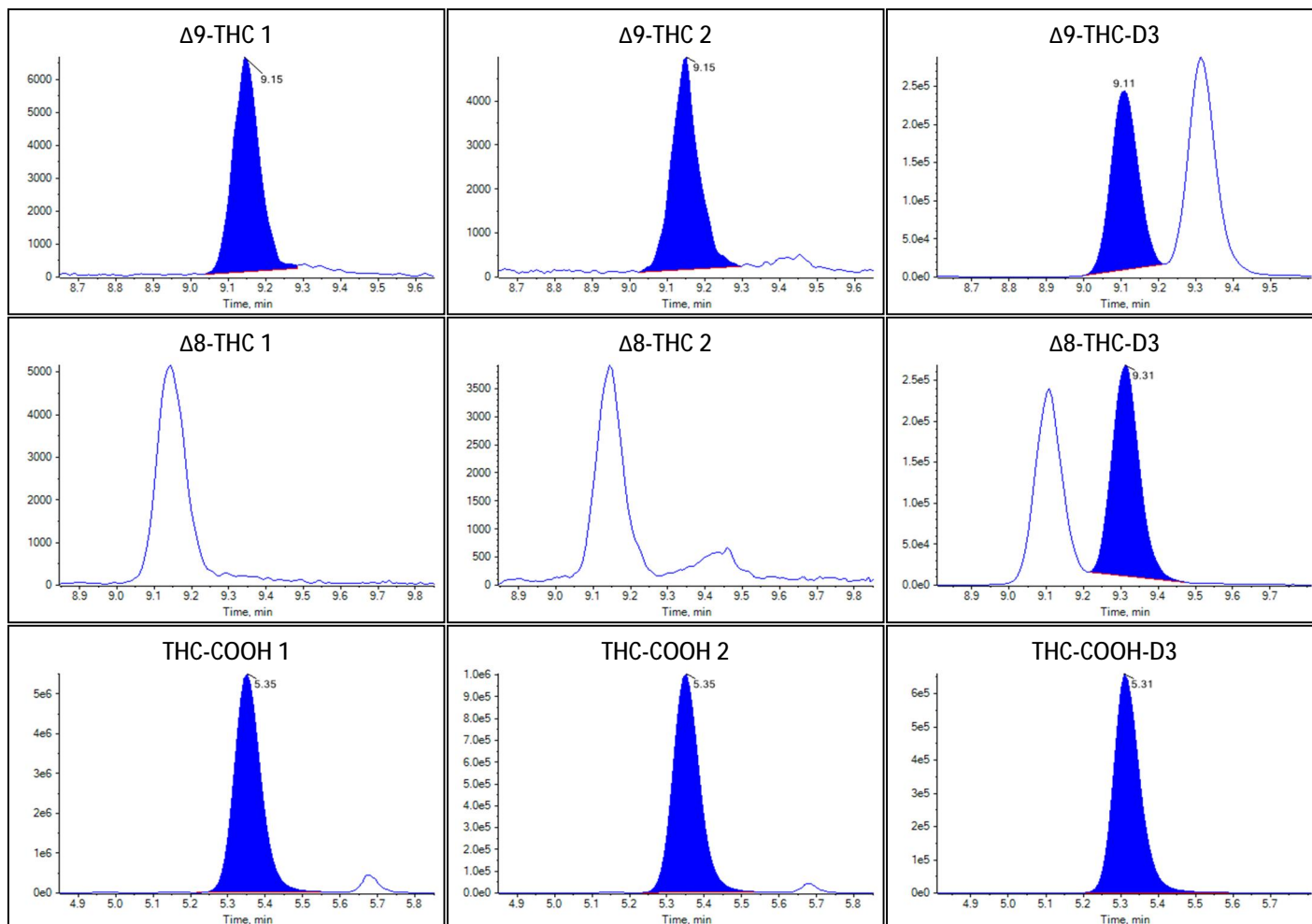
Identification Summary: F3

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.007(Pass)	
THC-OH 2	331.1 / 105.1	1.007(Pass)	1.753(Fail)
Δ 9-THC 1	315.1 / 193.1	1.004(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.004(Pass)	0.740(Pass)
Δ 8-THC 1	315.1 / 193.1	N/A	
Δ 8-THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.007(Pass)	0.182(Pass)

Peak Review: F3



Peak Review: F3





Sample Summary

Sample Name	F4
Acquisition Date/Time	2022-09-23T20:01:51
Acquisition Method	THC.dam
Batch Name	20220923TSF Florida.dab
Results Table	20220923TSF
Sample Type	Unknown
File Name	20220923TSF.wiff
Position	12
Sample Comment	

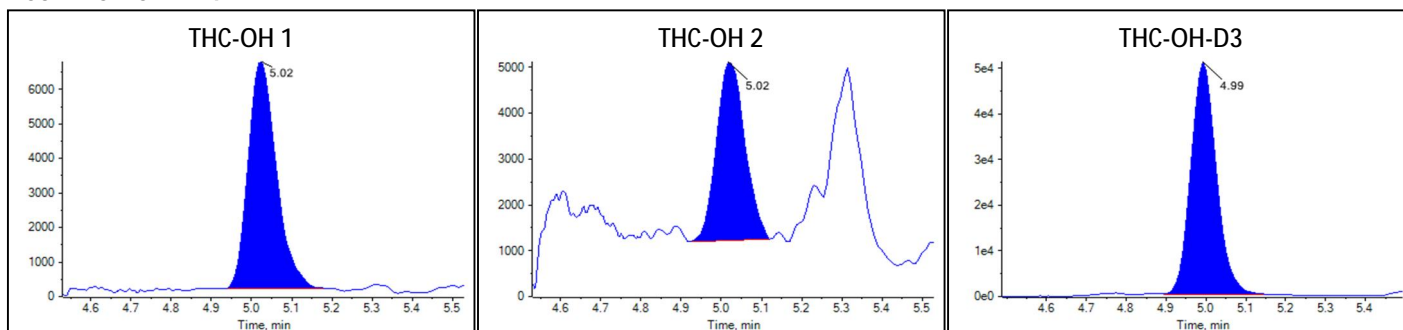
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.1429	1.371		
Δ 9-THC	0.0077	0.304		
Δ 8-THC	N/A	N/A		
THC-COOH	2.8244	29.203		

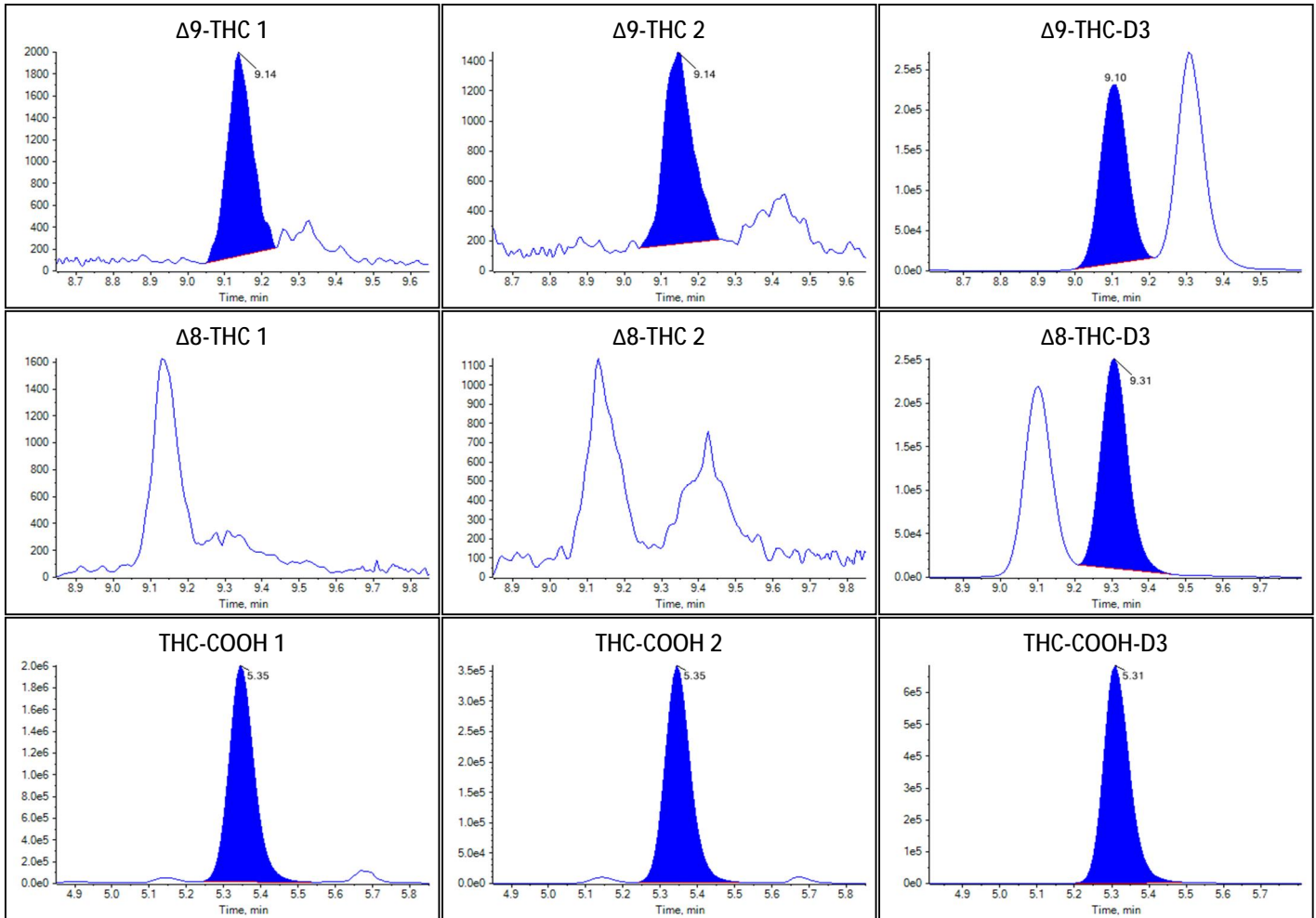
Identification Summary: F4

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.006(Pass)	
THC-OH 2	331.1 / 105.1	1.006(Pass)	0.594(Pass)
Δ 9-THC 1	315.1 / 193.1	1.004(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.004(Pass)	0.801(Pass)
Δ 8-THC 1	315.1 / 193.1	N/A	
Δ 8-THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.007(Pass)	0.180(Pass)

Peak Review: F4



Peak Review: F4





Sample Summary

Sample Name	F5
Acquisition Date/Time	2022-09-23T20:15:57
Acquisition Method	THC.dam
Batch Name	20220923TSF Florida.dab
Results Table	20220923TSF
Sample Type	Unknown
File Name	20220923TSF.wiff
Position	13
Sample Comment	

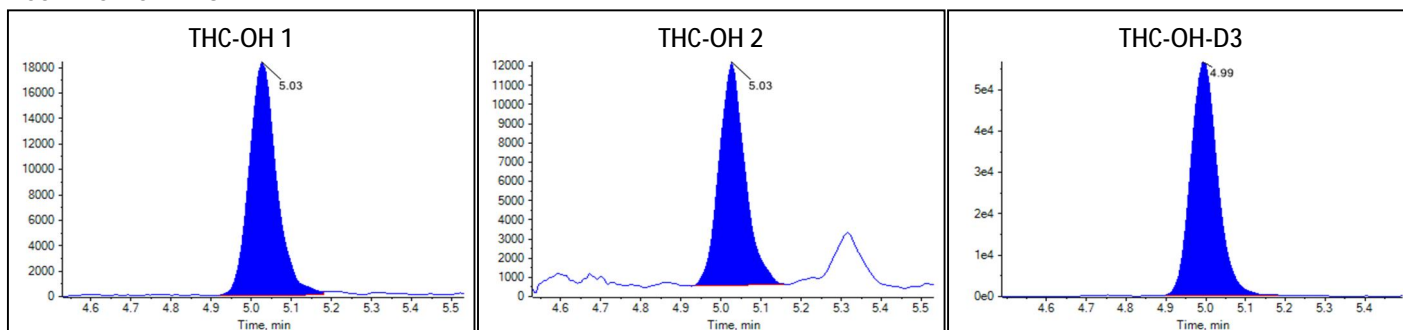
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.3279	2.993		
Δ^9 -THC	0.2685	8.987		
Δ^8 -THC	N/A	N/A		
THC-COOH	9.9926	104.824		

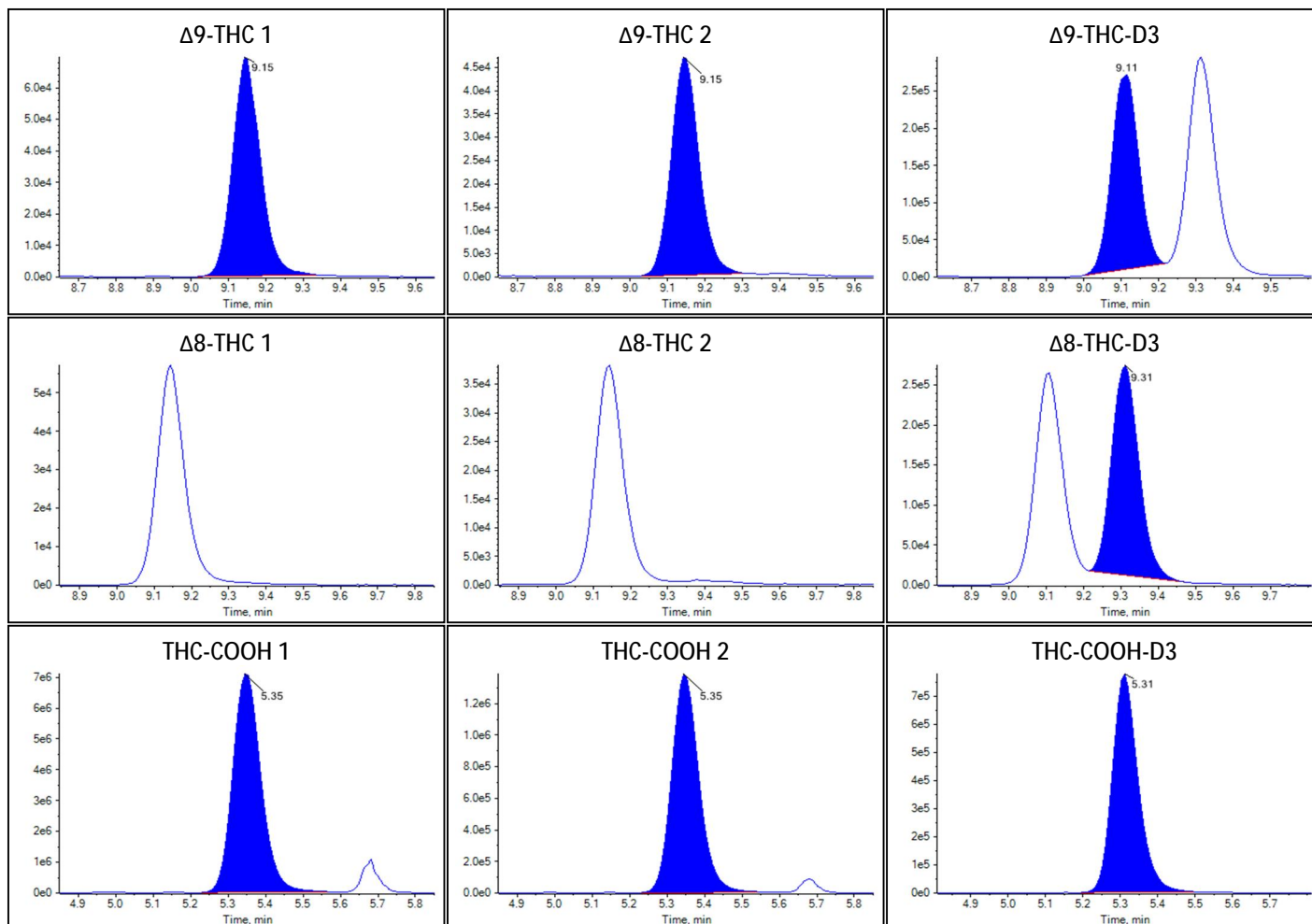
Identification Summary: F5

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.007(Pass)	
THC-OH 2	331.1 / 105.1	1.006(Pass)	0.598(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.004(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.004(Pass)	0.682(Pass)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.007(Pass)	0.188(Pass)

Peak Review: F5



Peak Review: F5





Sample Summary

Sample Name	F6
Acquisition Date/Time	2022-09-23T20:30:02
Acquisition Method	THC.dam
Batch Name	20220923TSF Florida.dab
Results Table	20220923TSF
Sample Type	Unknown
File Name	20220923TSF.wiff
Position	14
Sample Comment	

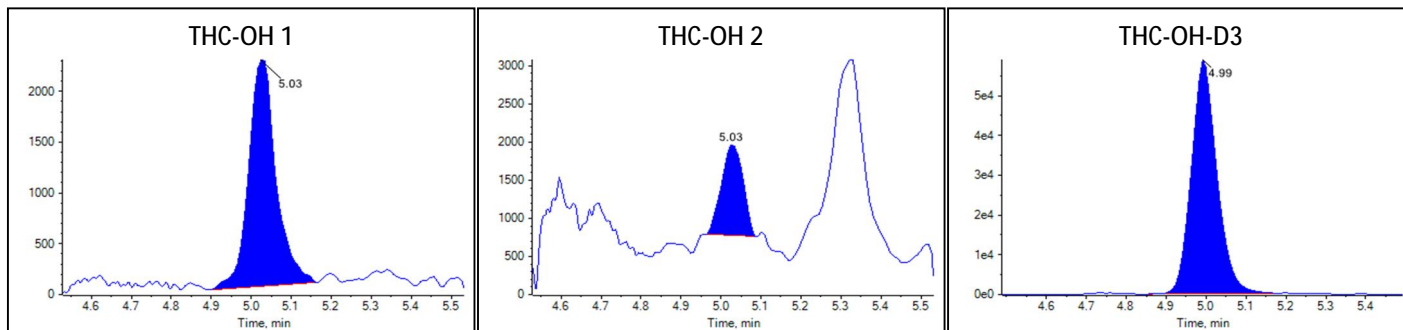
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.0410	0.479		
Δ 9-THC	0.0216	0.764		
Δ 8-THC	N/A	N/A		
THC-COOH	1.2655	12.757		

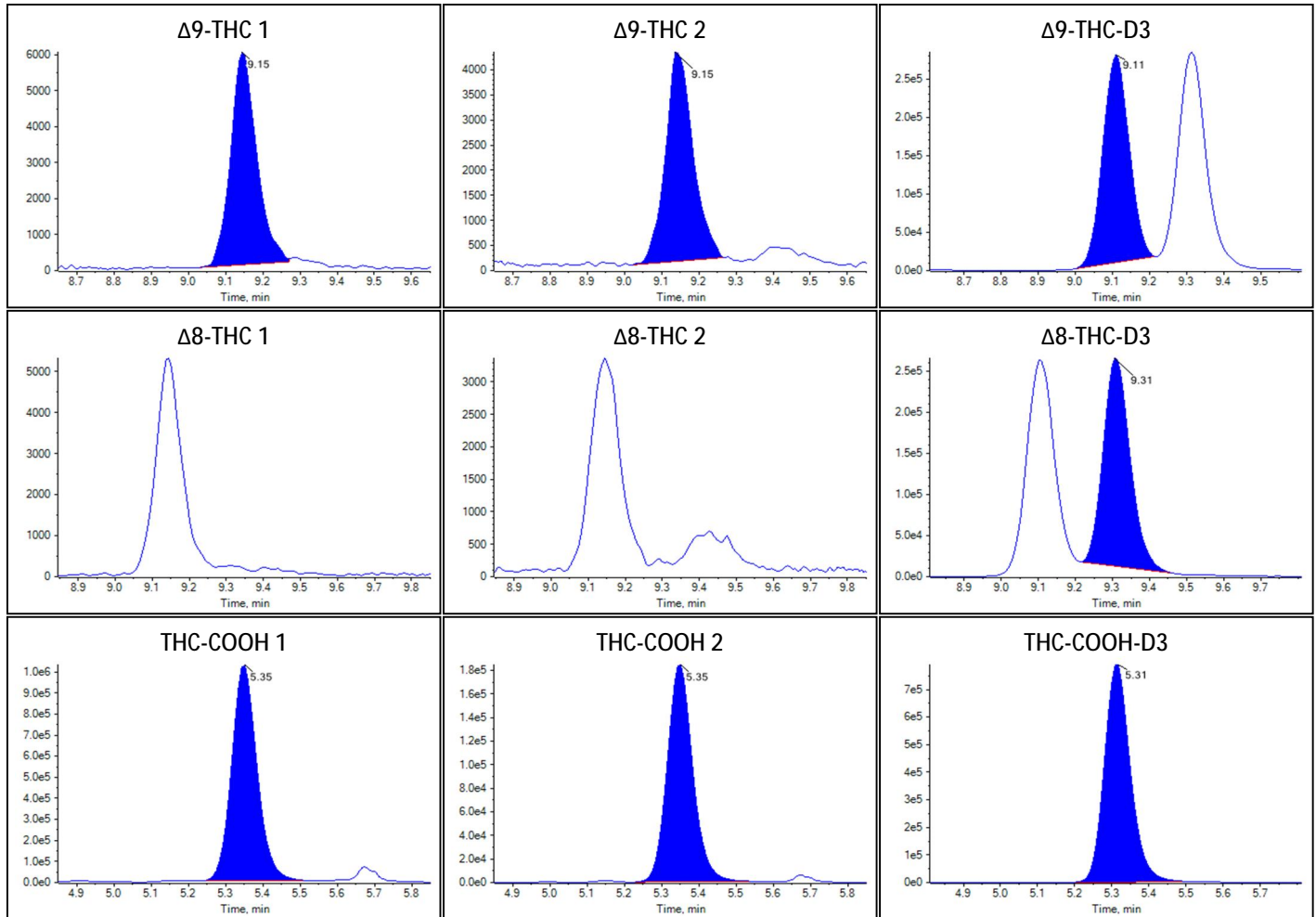
Identification Summary: F6

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.006(Pass)	
THC-OH 2	331.1 / 105.1	1.007(Pass)	0.418(Fail)
Δ 9-THC 1	315.1 / 193.1	1.004(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.004(Pass)	0.749(Pass)
Δ 8-THC 1	315.1 / 193.1	N/A	
Δ 8-THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.007(Pass)	0.182(Pass)

Peak Review: F6



Peak Review: F6





Sample Summary

Sample Name	F7
Acquisition Date/Time	2022-09-23T20:44:08
Acquisition Method	THC.dam
Batch Name	20220923TSF Florida.dab
Results Table	20220923TSF
Sample Type	Unknown
File Name	20220923TSF.wiff
Position	15
Sample Comment	

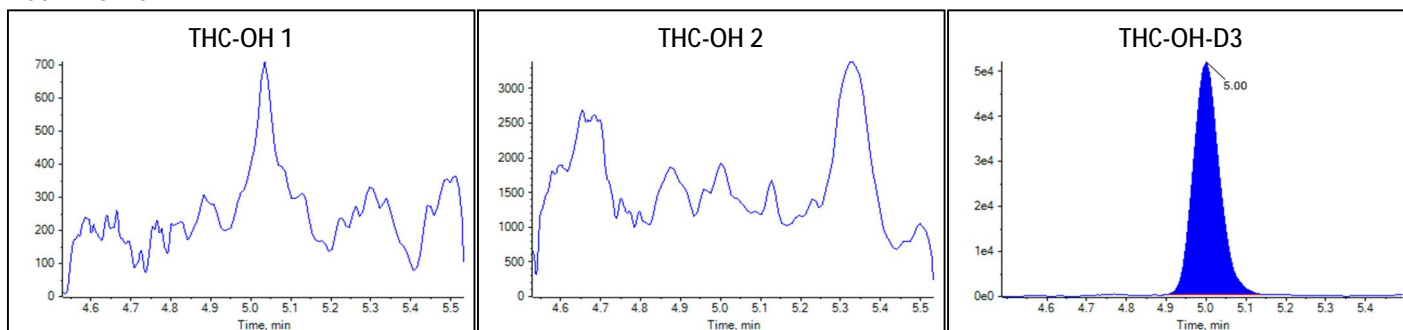
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	8.8575	92.849		

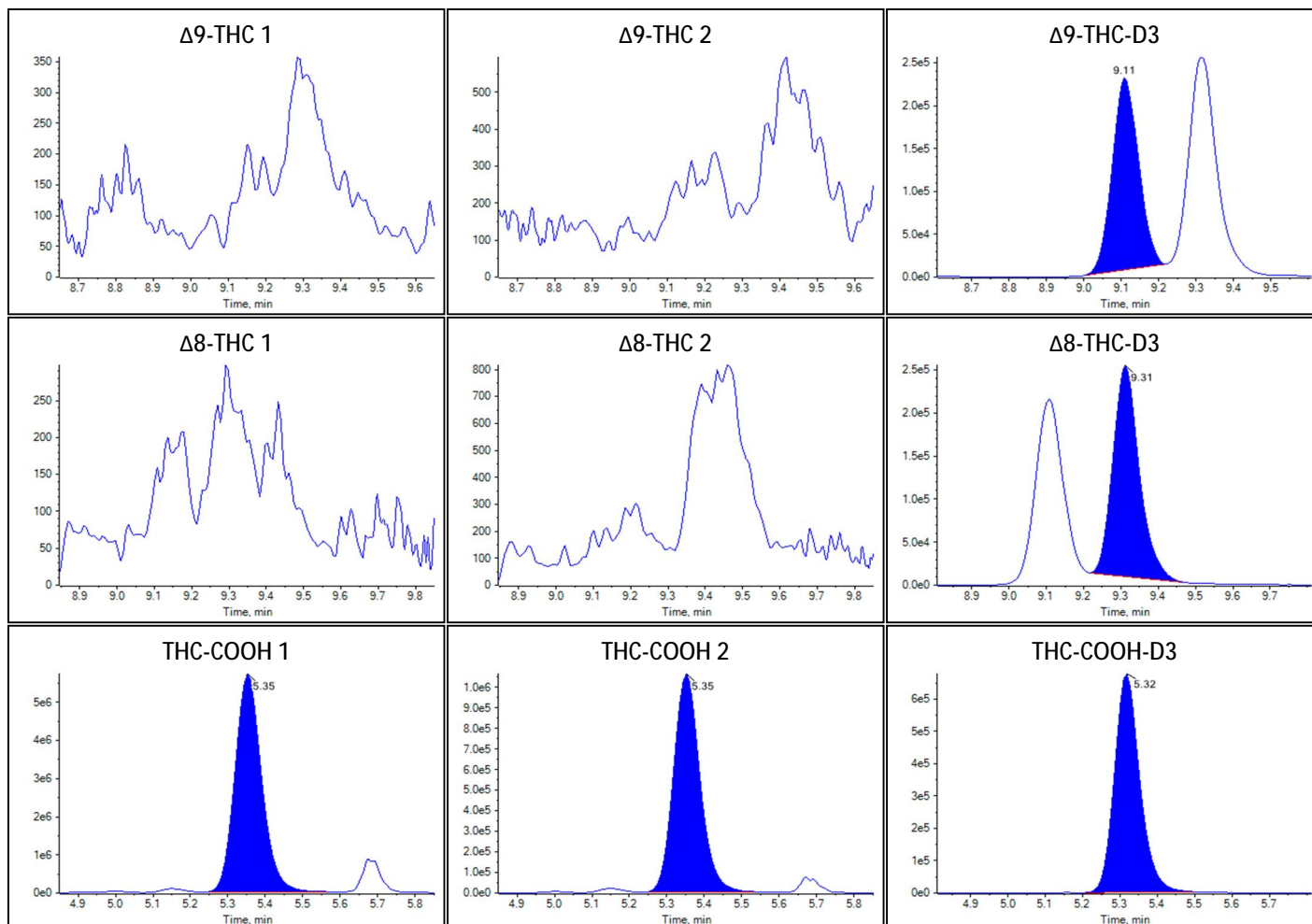
Identification Summary: F7

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ^9 -THC 1	315.1 / 193.1	N/A	
Δ^9 -THC 2	315.1 / 123.0	N/A	N/A
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.007(Pass)	0.184(Pass)

Peak Review: F7



Peak Review: F7





Sample Summary

Sample Name	F8
Acquisition Date/Time	2022-09-23T20:58:16
Acquisition Method	THC.dam
Batch Name	20220923TSF Florida.dab
Results Table	20220923TSF
Sample Type	Unknown
File Name	20220923TSF.wiff
Position	16
Sample Comment	

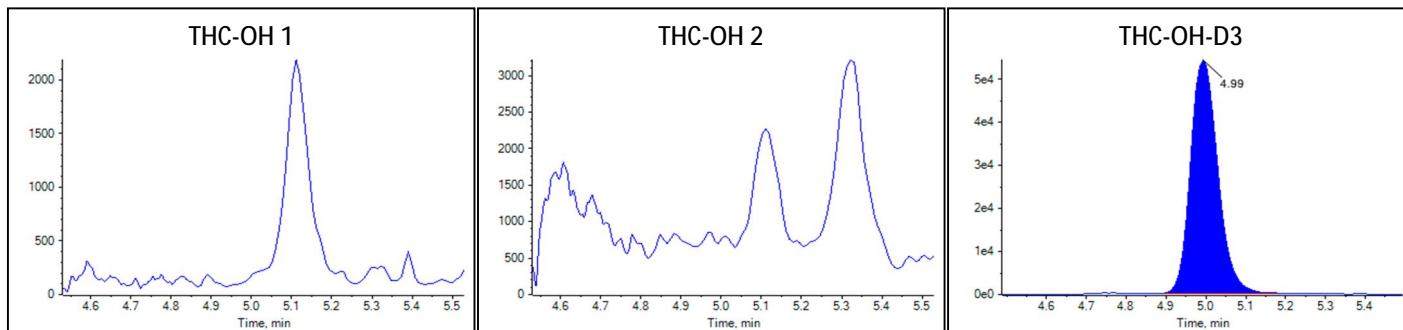
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ 9-THC	0.0037	0.173		
Δ 8-THC	0.0385	1.716		
THC-COOH	N/A	N/A		

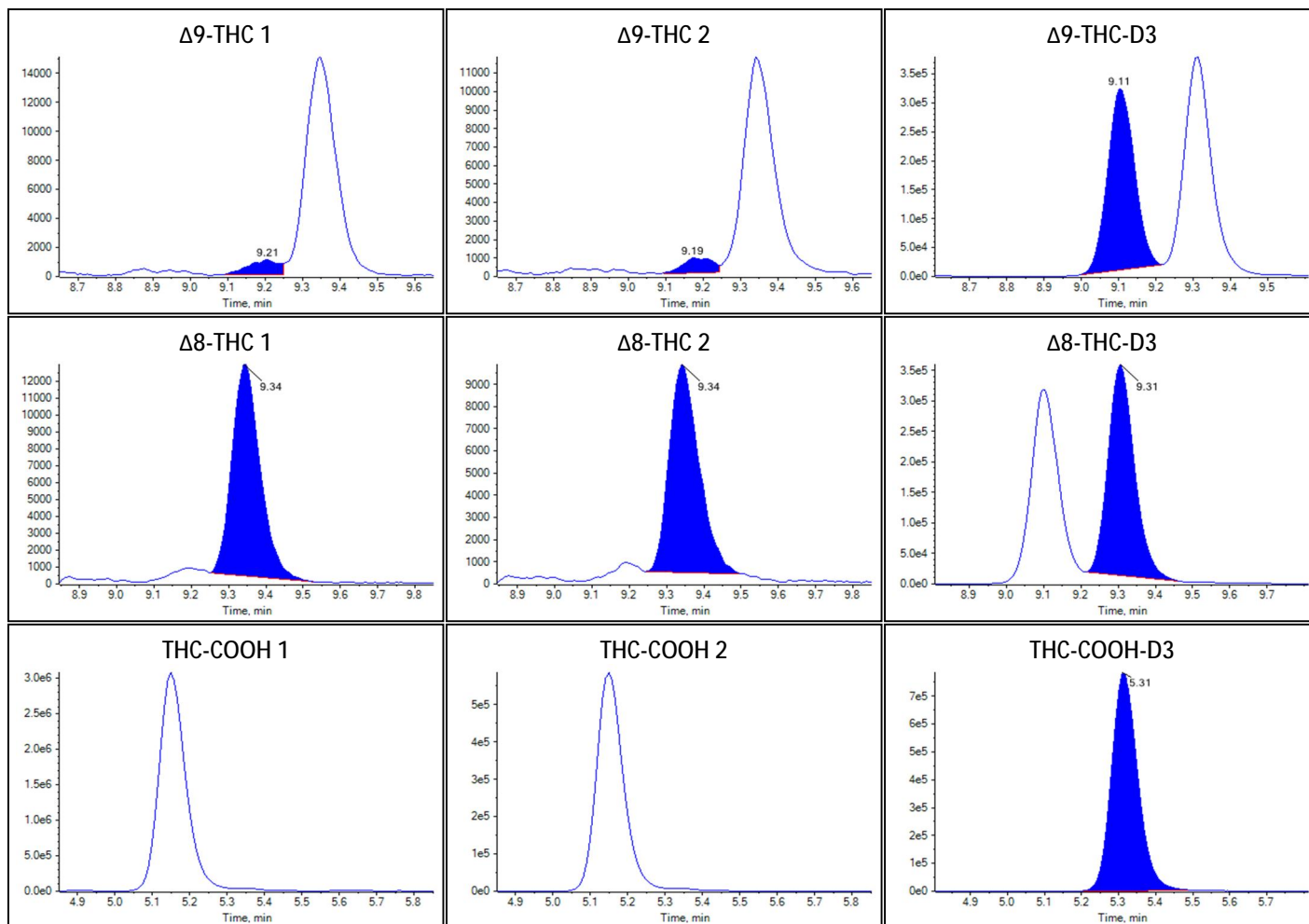
Identification Summary: F8

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ 9-THC 1	315.1 / 193.1	1.011(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.009(Pass)	0.799(Pass)
Δ 8-THC 1	315.1 / 193.1	1.004(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.004(Pass)	0.796(Pass)
THC-COOH 1	343.0 / 299.1	N/A	
THC-COOH 2	343.0 / 191.0	N/A	N/A

Peak Review: F8



Peak Review: F8





Sample Summary

Sample Name	F9
Acquisition Date/Time	2022-09-23T21:12:21
Acquisition Method	THC.dam
Batch Name	20220923TSF Florida.dab
Results Table	20220923TSF
Sample Type	Unknown
File Name	20220923TSF.wiff
Position	17
Sample Comment	

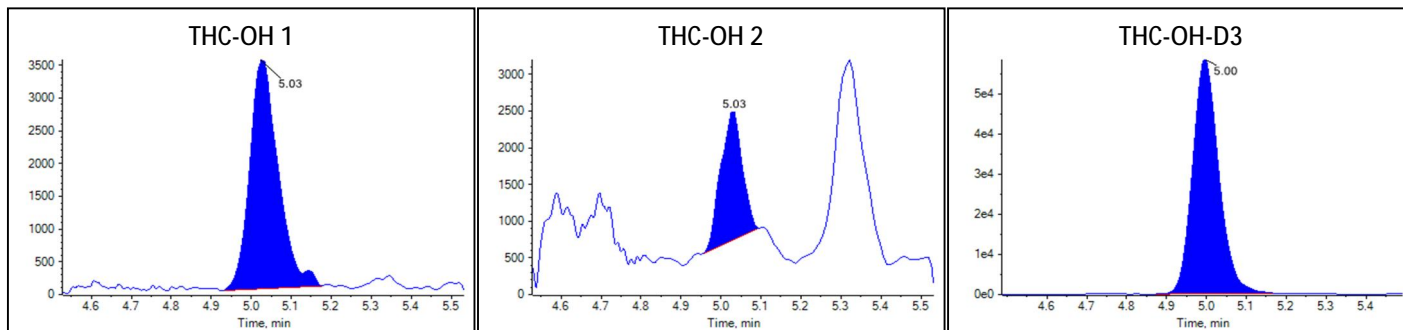
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.0653	0.691		
Δ^9 -THC	0.0433	1.483		
Δ^8 -THC	N/A	N/A		
THC-COOH	1.5715	15.985		

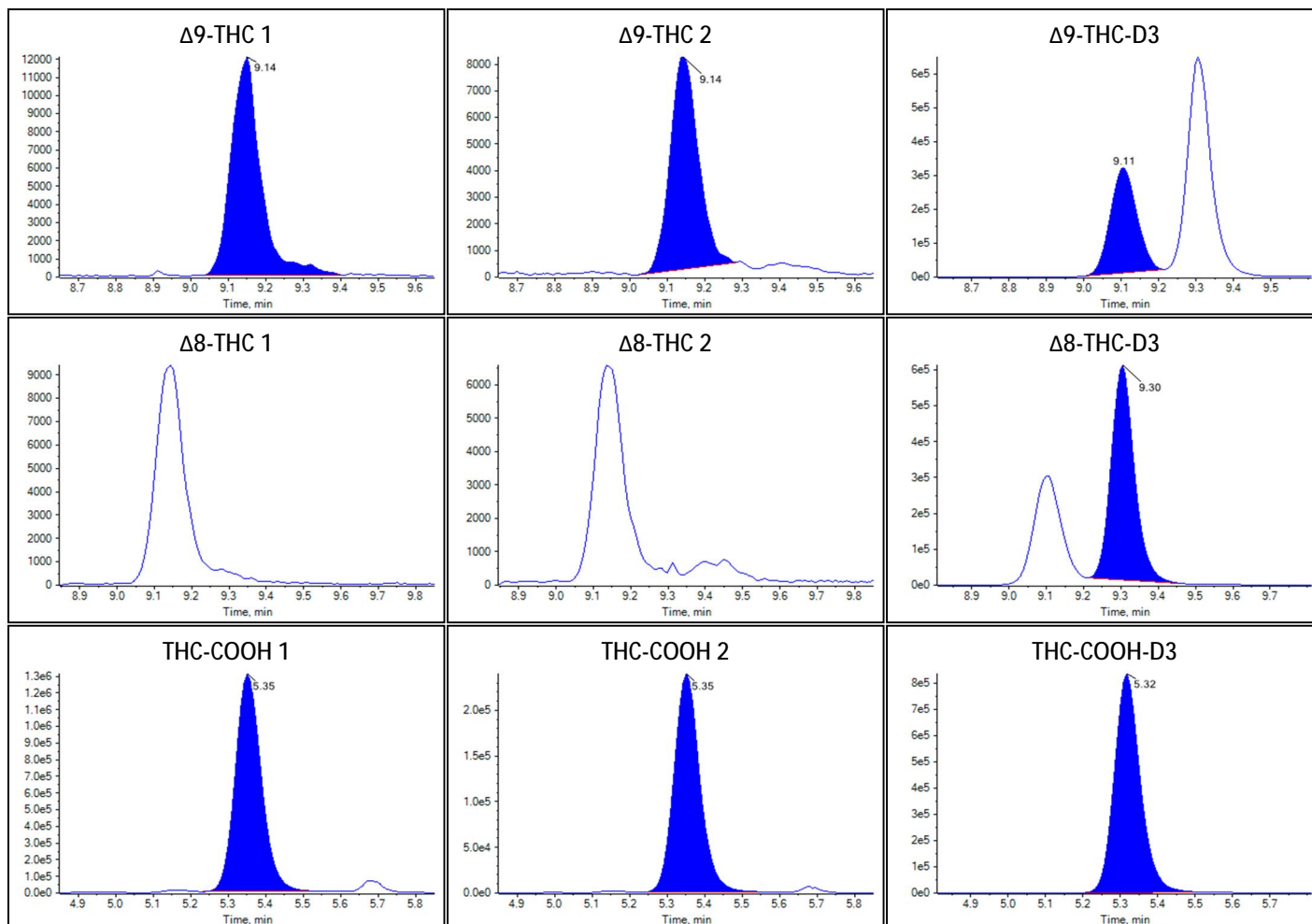
Identification Summary: F9

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.006(Pass)	
THC-OH 2	331.1 / 105.1	1.006(Pass)	0.378(Fail)
Δ^9 -THC 1	315.1 / 193.1	1.004(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.004(Pass)	0.638(Pass)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.007(Pass)	0.182(Pass)

Peak Review: F9



Peak Review: F9





Sample Summary

Sample Name	F10
Acquisition Date/Time	2022-09-23T21:26:27
Acquisition Method	THC.dam
Batch Name	20220923TSF Florida.dab
Results Table	20220923TSF
Sample Type	Unknown
File Name	20220923TSF.wiff
Position	18
Sample Comment	

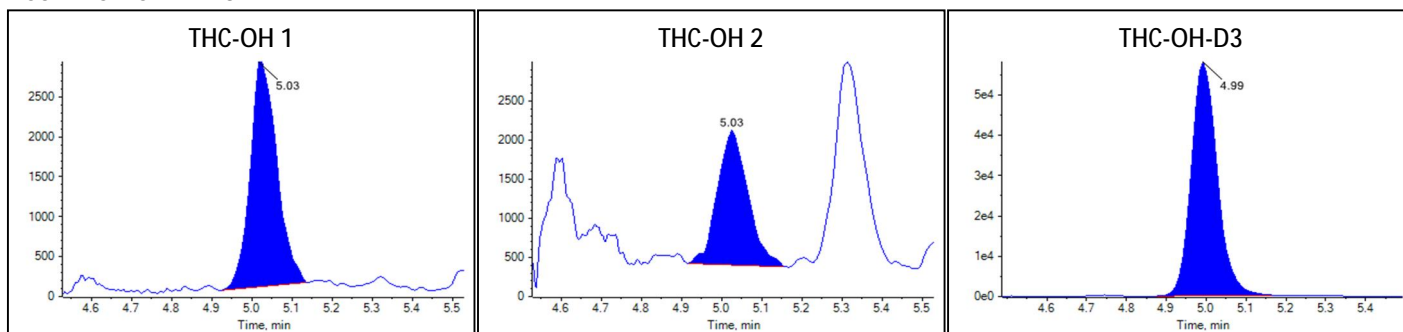
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.0497	0.554		
Δ^9 -THC	0.0222	0.785		
Δ^8 -THC	N/A	N/A		
THC-COOH	4.1063	42.726		

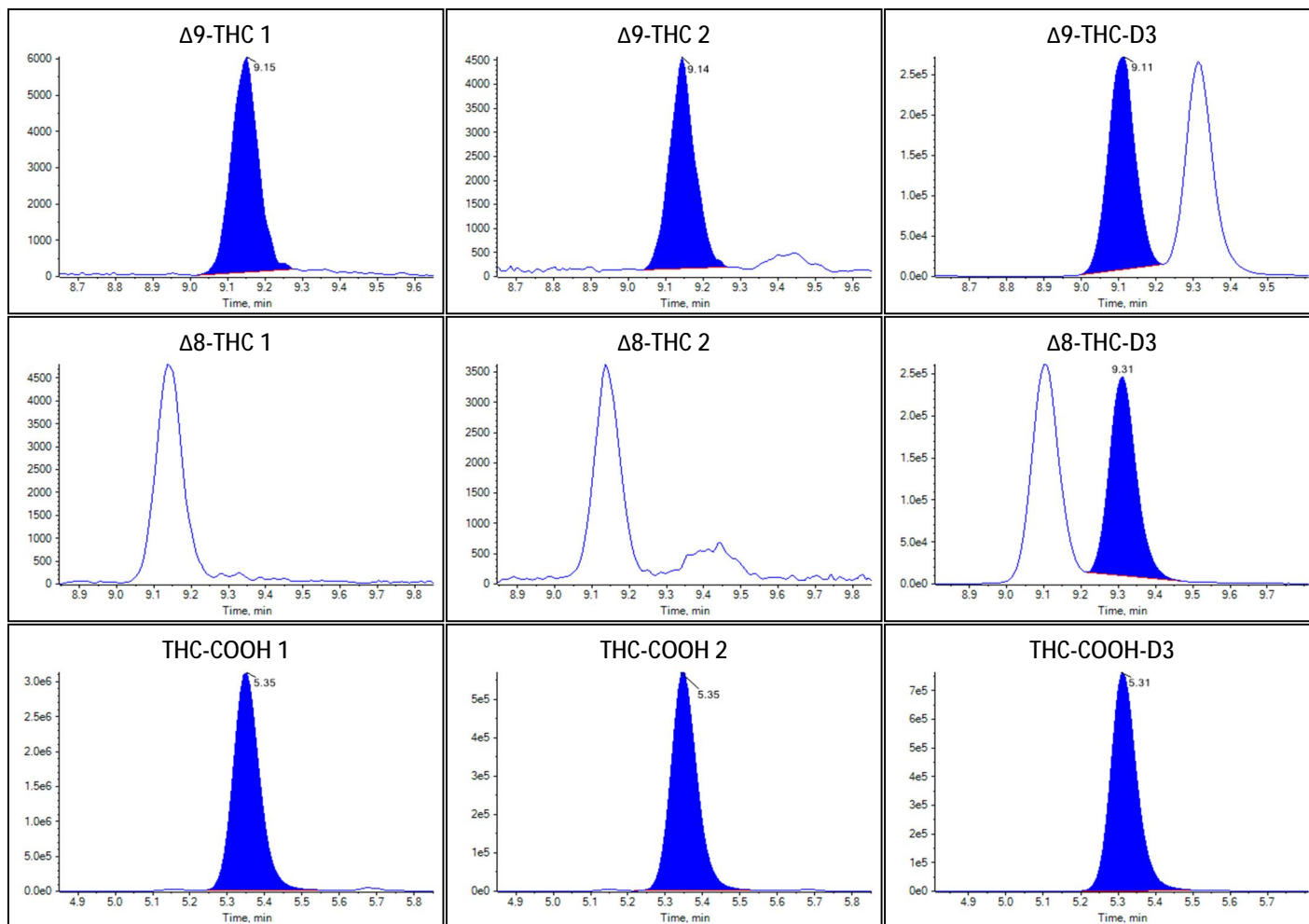
Identification Summary: F10

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.007(Pass)	
THC-OH 2	331.1 / 105.1	1.007(Pass)	0.699(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.004(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.004(Pass)	0.693(Pass)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.007(Pass)	0.181(Pass)

Peak Review: F10



Peak Review: F10





Sample Summary

Sample Name	Low Control
Acquisition Date/Time	2022-09-23T21:40:32
Acquisition Method	THC.dam
Batch Name	20220923TSF Florida.dab
Results Table	20220923TSF
Sample Type	Quality Control
File Name	20220923TSF.wiff
Position	19
Sample Comment	

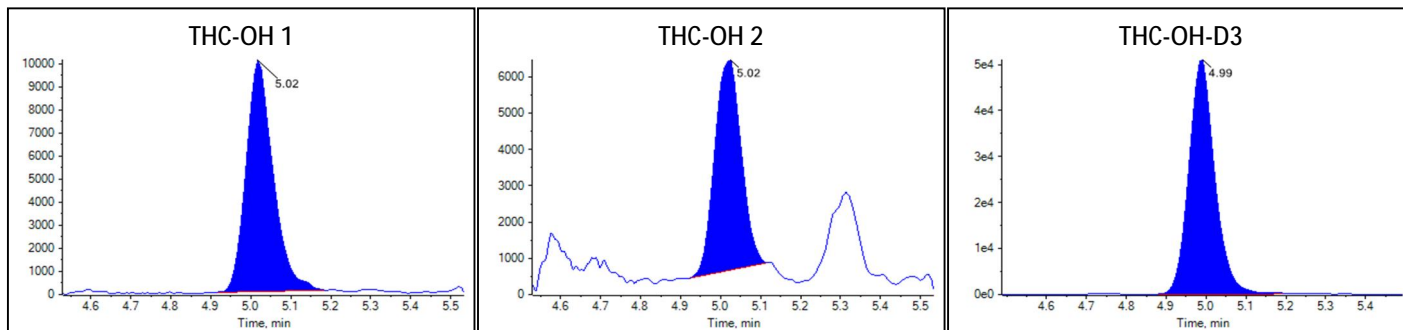
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.2048	1.914		
Δ^9 -THC	0.0837	2.820		
Δ^8 -THC	0.0646	2.780		
THC-COOH	0.7324	7.133		

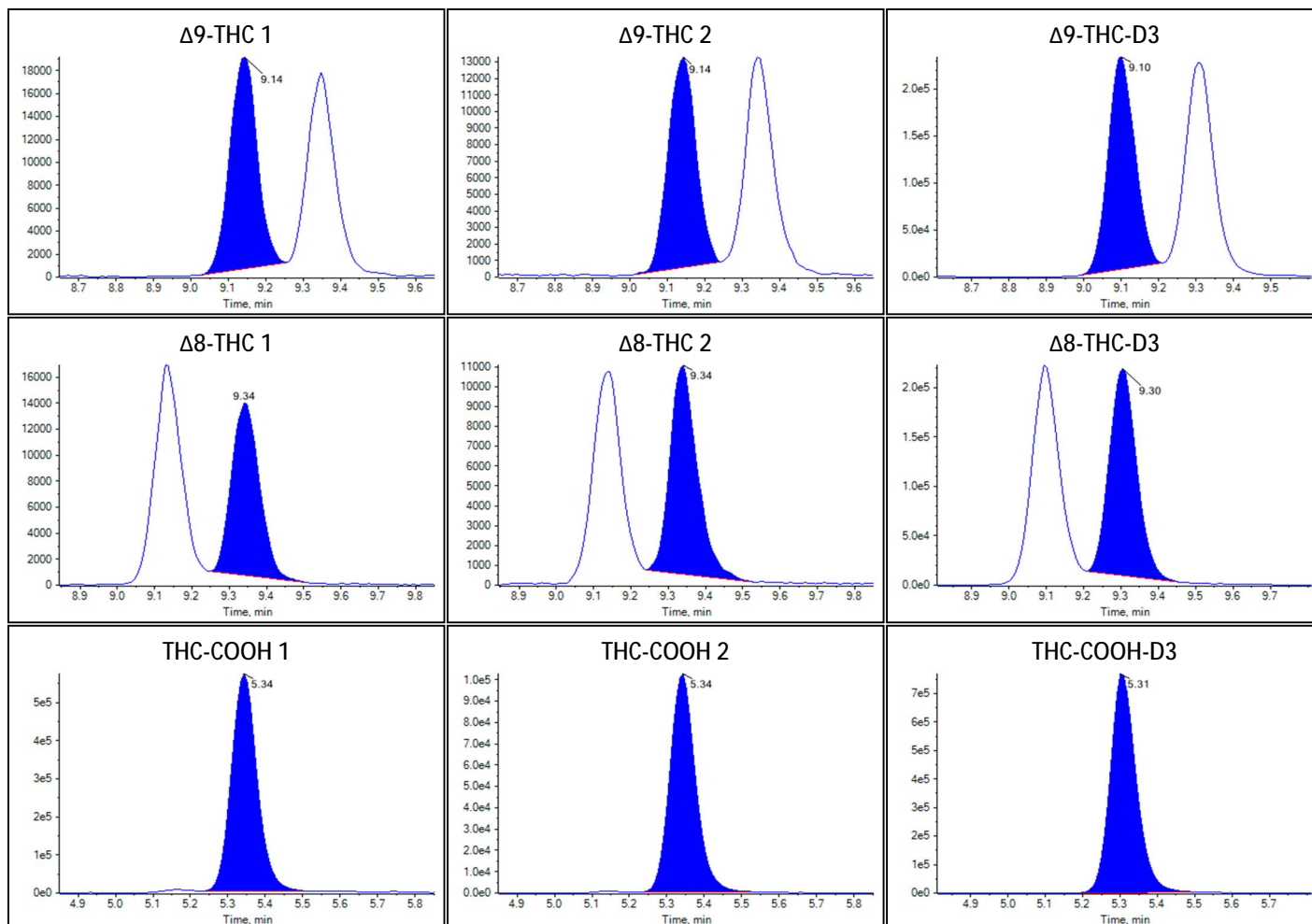
Identification Summary: Low Control

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.006(Pass)	
THC-OH 2	331.1 / 105.1	1.006(Pass)	0.569(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.005(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.004(Pass)	0.703(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.004(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.004(Pass)	0.778(Pass)
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.006(Pass)	0.180(Pass)

Peak Review: Low Control



Peak Review: Low Control





Sample Summary

Sample Name	F11
Acquisition Date/Time	2022-09-23T21:54:38
Acquisition Method	THC.dam
Batch Name	20220923TSF Florida.dab
Results Table	20220923TSF
Sample Type	Unknown
File Name	20220923TSF.wiff
Position	20
Sample Comment	

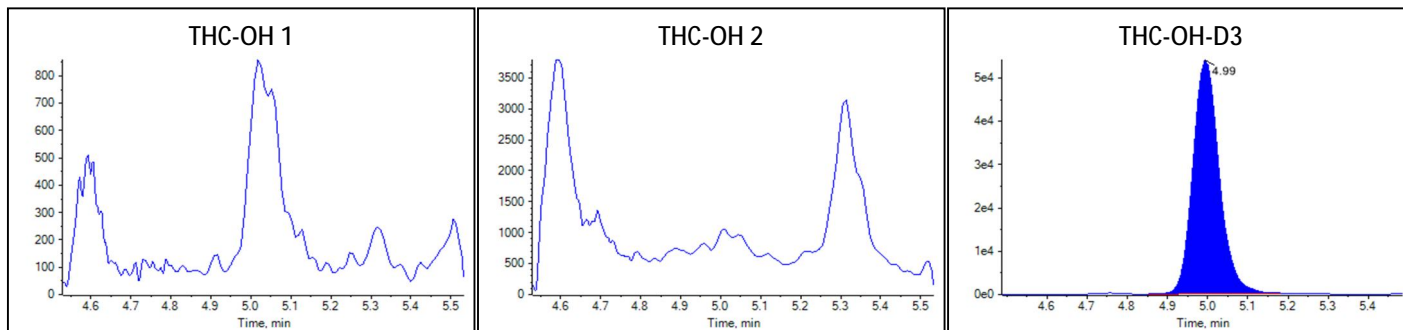
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	0.0153	0.557		
Δ^8 -THC	N/A	N/A		
THC-COOH	0.7002	6.793		

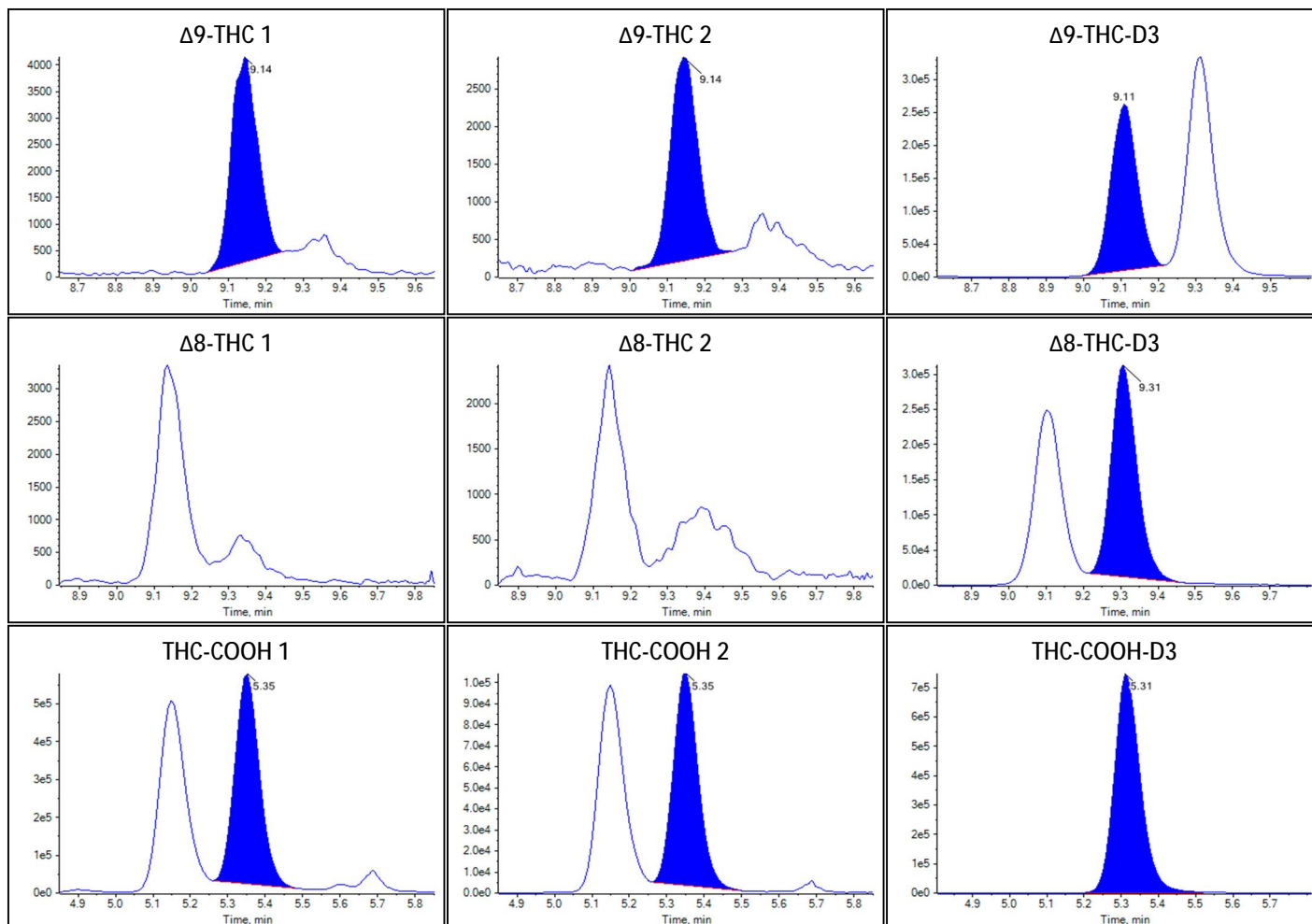
Identification Summary: F11

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ^9 -THC 1	315.1 / 193.1	1.004(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.004(Pass)	0.739(Pass)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.007(Pass)	0.183(Pass)

Peak Review: F11



Peak Review: F11





Sample Summary

Sample Name	F12
Acquisition Date/Time	2022-09-23T22:08:43
Acquisition Method	THC.dam
Batch Name	20220923TSF Florida.dab
Results Table	20220923TSF
Sample Type	Unknown
File Name	20220923TSF.wiff
Position	21
Sample Comment	

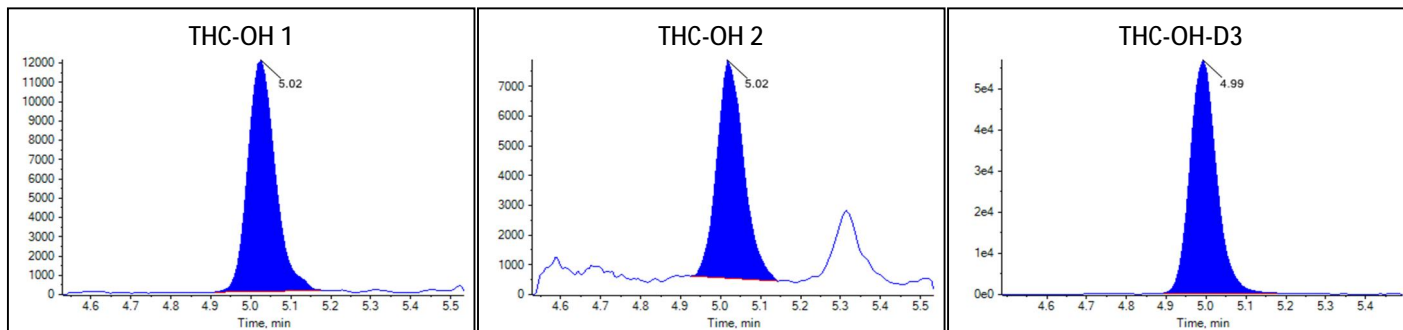
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.2170	2.021		
Δ^9 -THC	0.1244	4.174		
Δ^8 -THC	N/A	N/A		
THC-COOH	3.8040	39.537		

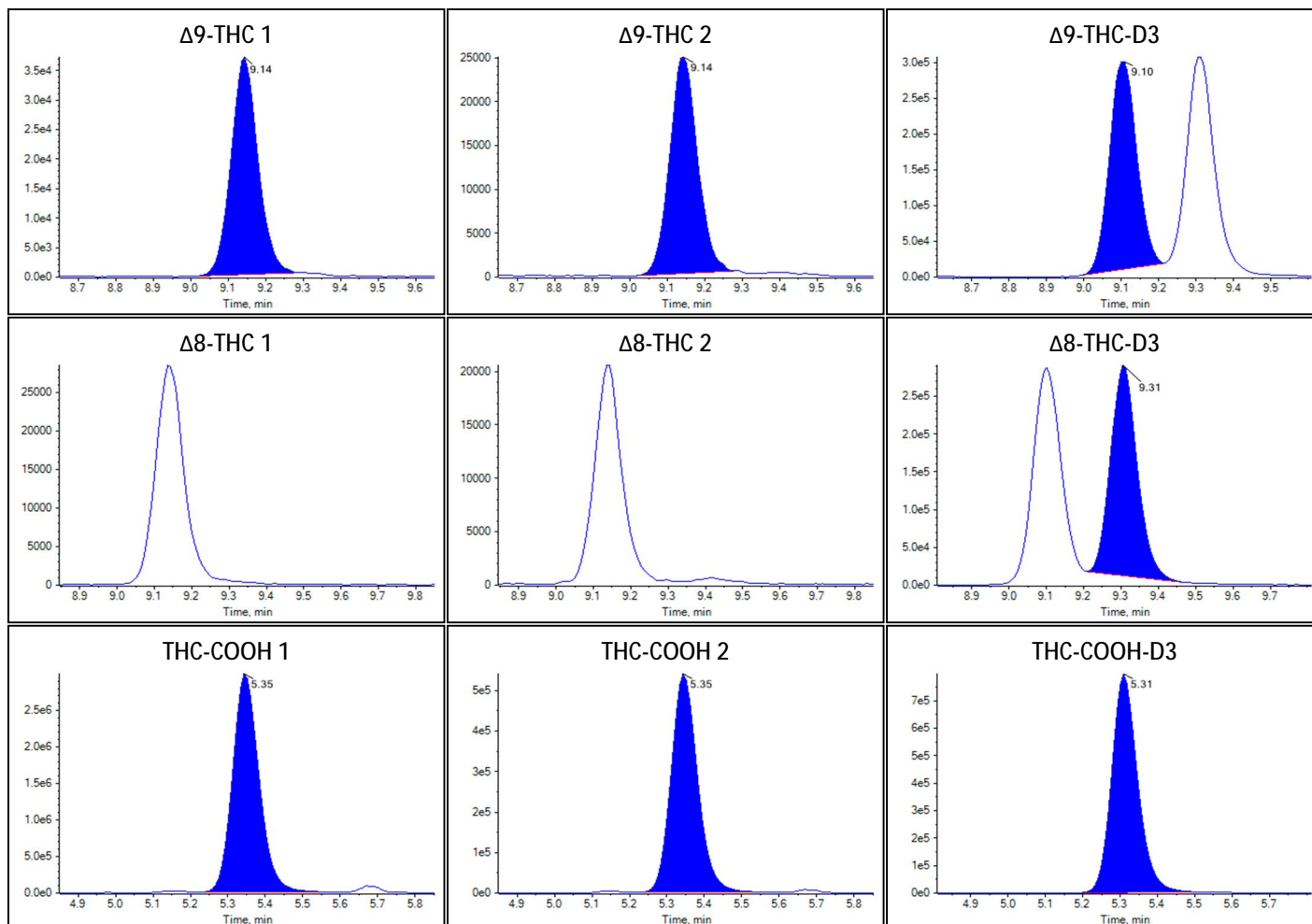
Identification Summary: F12

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.007(Pass)	
THC-OH 2	331.1 / 105.1	1.006(Pass)	0.598(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.004(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.004(Pass)	0.696(Pass)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.007(Pass)	0.181(Pass)

Peak Review: F12



Peak Review: F12





Sample Summary

Sample Name	F13
Acquisition Date/Time	2022-09-23T22:22:48
Acquisition Method	THC.dam
Batch Name	20220923TSF Florida.dab
Results Table	20220923TSF
Sample Type	Unknown
File Name	20220923TSF.wiff
Position	22
Sample Comment	

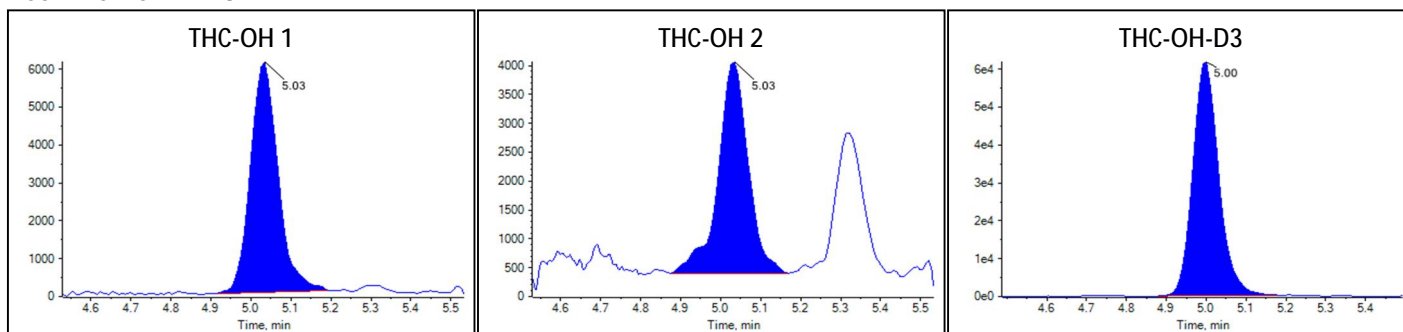
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.1050	1.039		
Δ^9 -THC	0.1480	4.961		
Δ^8 -THC	N/A	N/A		
THC-COOH	2.3241	23.925		

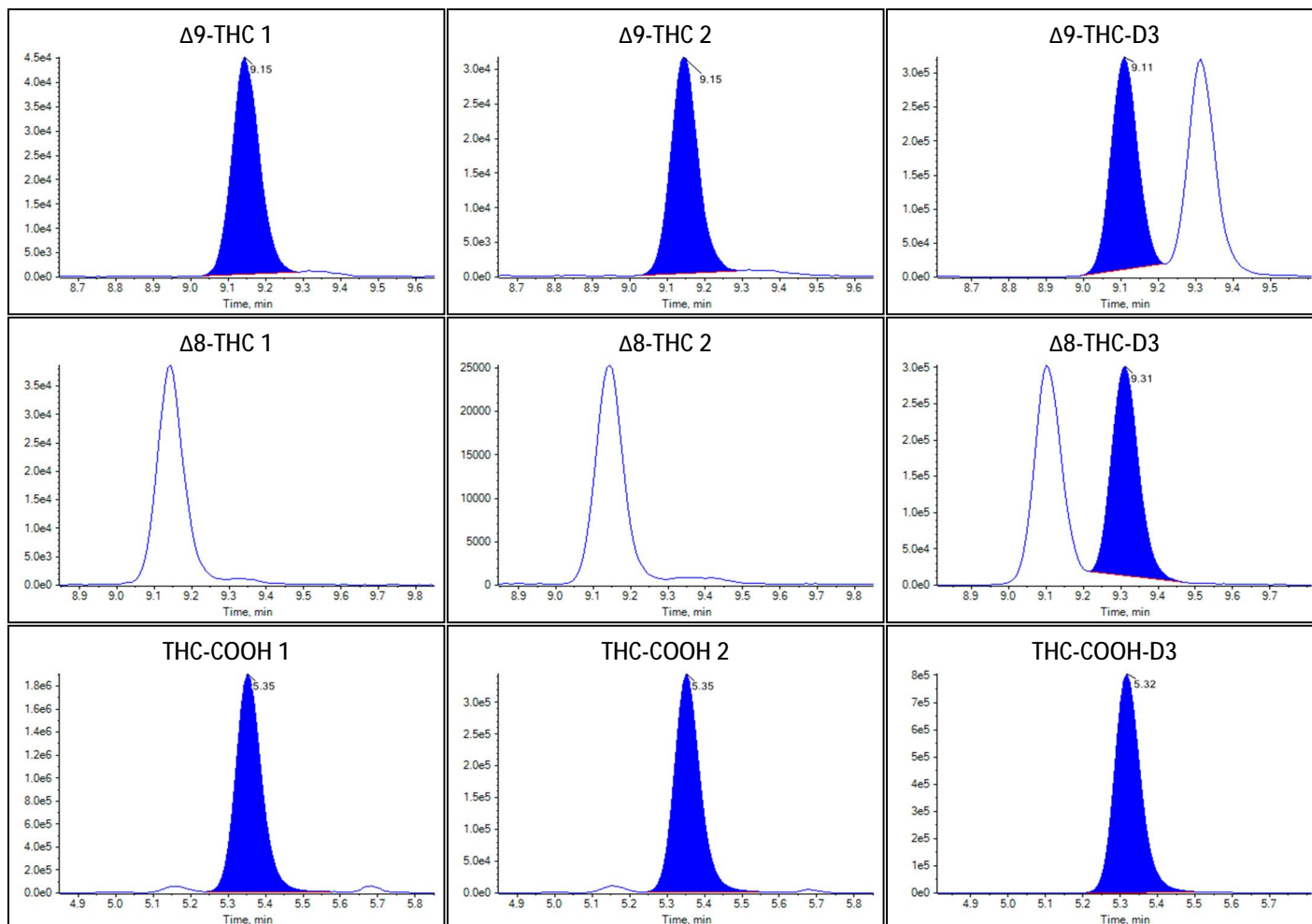
Identification Summary: F13

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.007(Pass)	
THC-OH 2	331.1 / 105.1	1.007(Pass)	0.657(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.004(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.004(Pass)	0.697(Pass)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.007(Pass)	0.180(Pass)

Peak Review: F13



Peak Review: F13





Sample Summary

Sample Name	F14
Acquisition Date/Time	2022-09-23T22:36:54
Acquisition Method	THC.dam
Batch Name	20220923TSF Florida.dab
Results Table	20220923TSF
Sample Type	Unknown
File Name	20220923TSF.wiff
Position	23
Sample Comment	

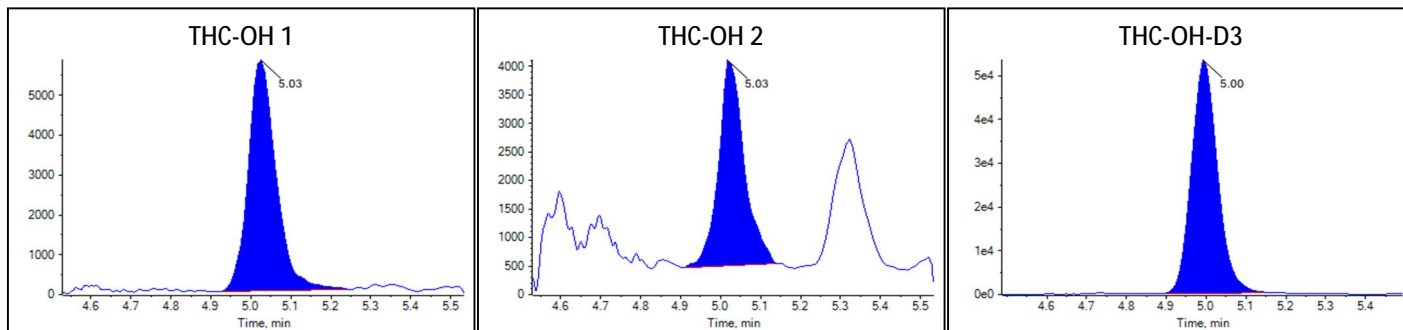
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.1161	1.136		
Δ^9 -THC	0.0657	2.225		
Δ^8 -THC	N/A	N/A		
THC-COOH	6.1582	64.372		

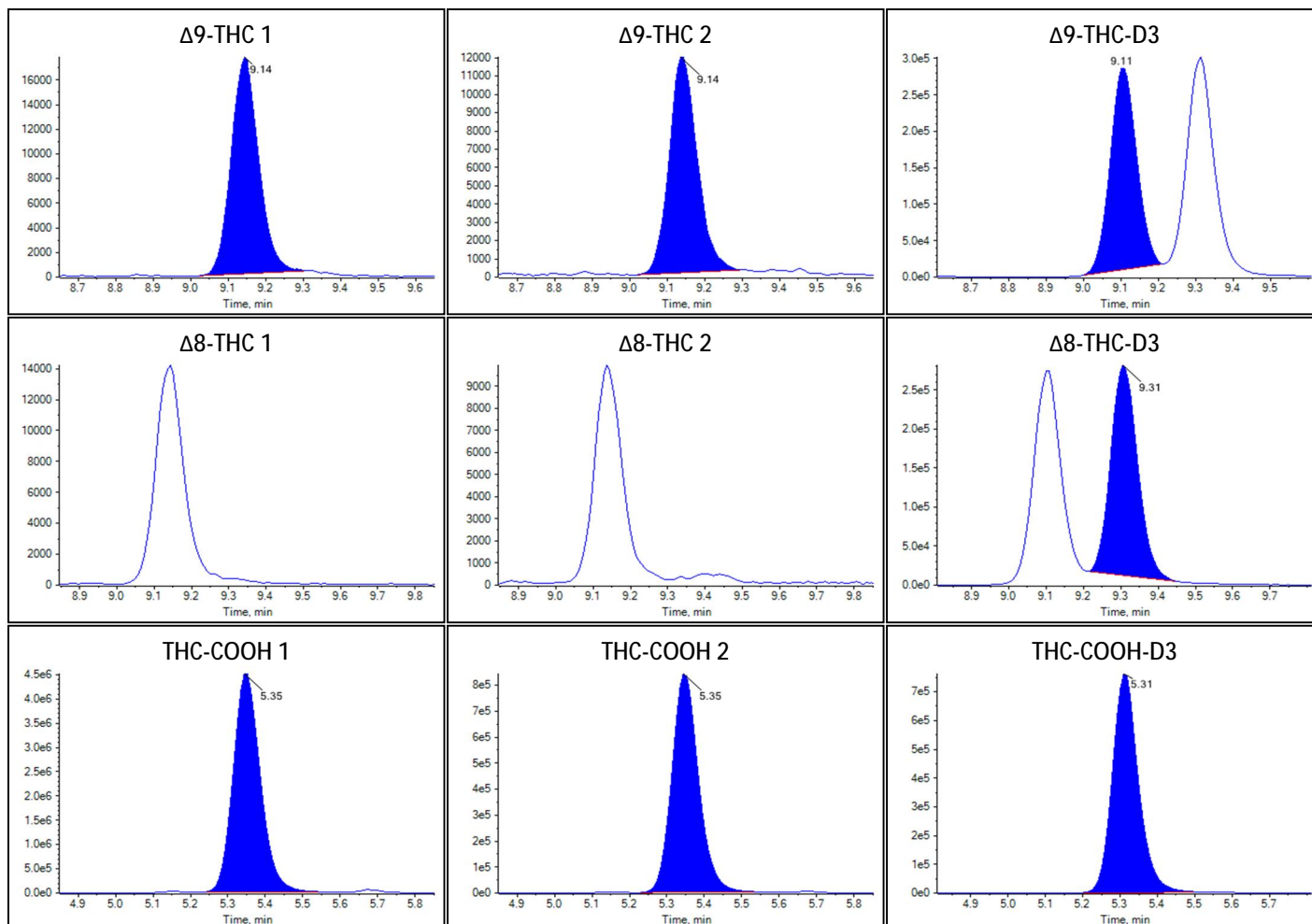
Identification Summary: F14

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.006(Pass)	
THC-OH 2	331.1 / 105.1	1.006(Pass)	0.576(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.004(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.004(Pass)	0.688(Pass)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.007(Pass)	0.184(Pass)

Peak Review: F14



Peak Review: F14





Sample Summary

Sample Name	CTS-2
Acquisition Date/Time	2022-09-23T22:50:59
Acquisition Method	THC.dam
Batch Name	20220923TSF Florida.dab
Results Table	20220923TSF
Sample Type	Unknown
File Name	20220923TSF.wiff
Position	24
Sample Comment	

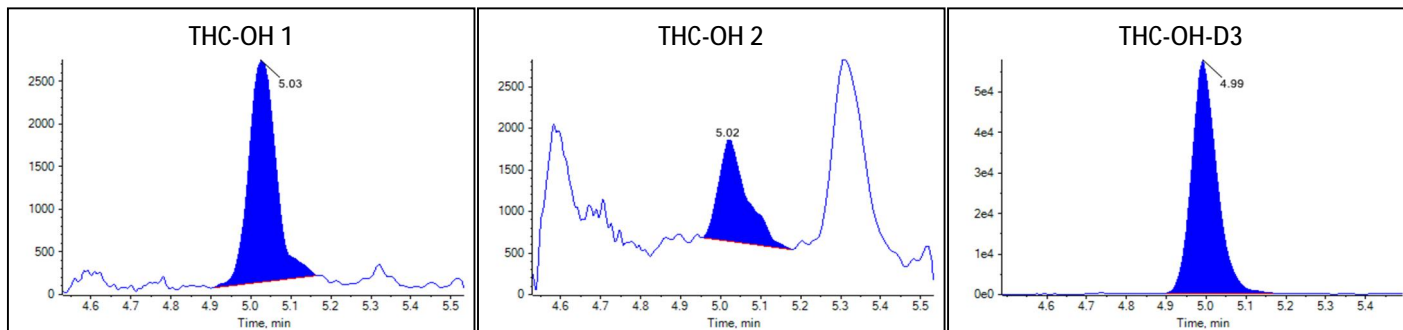
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.0491	0.550		
Δ^9 -THC	0.0298	1.035		
Δ^8 -THC	N/A	N/A		
THC-COOH	3.2341	33.524		

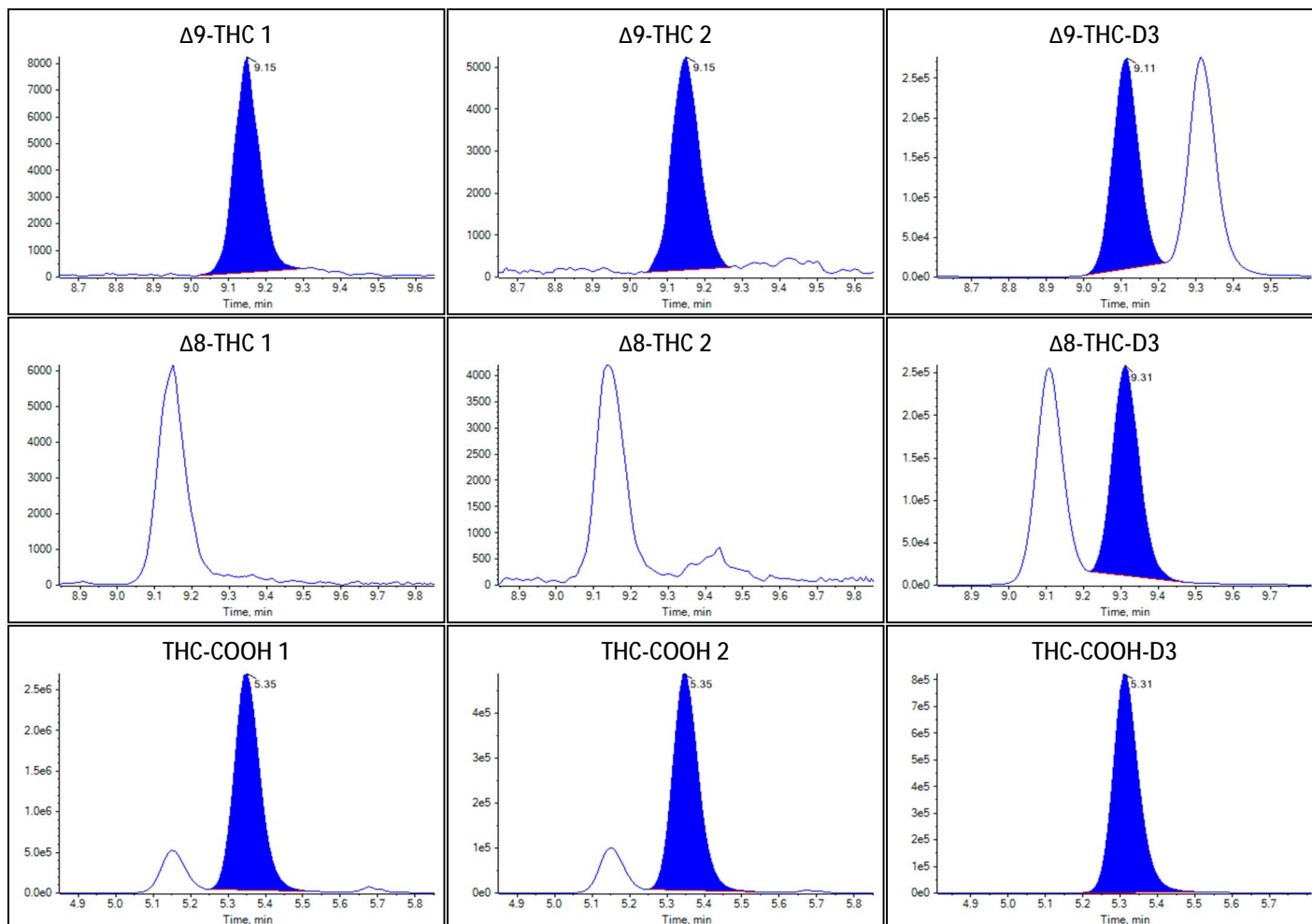
Identification Summary: CTS-2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.007(Pass)	
THC-OH 2	331.1 / 105.1	1.006(Pass)	0.484(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.004(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.004(Pass)	0.691(Pass)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.007(Pass)	0.182(Pass)

Peak Review: CTS-2



Peak Review: CTS-2





Sample Summary

Sample Name	THC-1
Acquisition Date/Time	2022-09-23T23:05:05
Acquisition Method	THC.dam
Batch Name	20220923TSF Florida.dab
Results Table	20220923TSF
Sample Type	Unknown
File Name	20220923TSF.wiff
Position	25
Sample Comment	

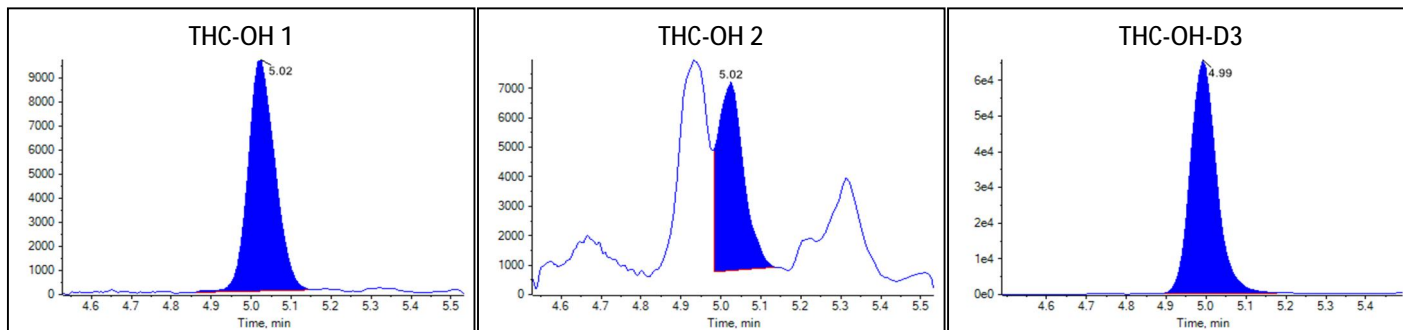
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.1512	1.444		
Δ^9 -THC	0.0380	1.308		
Δ^8 -THC	N/A	N/A		
THC-COOH	1.4236	14.425		

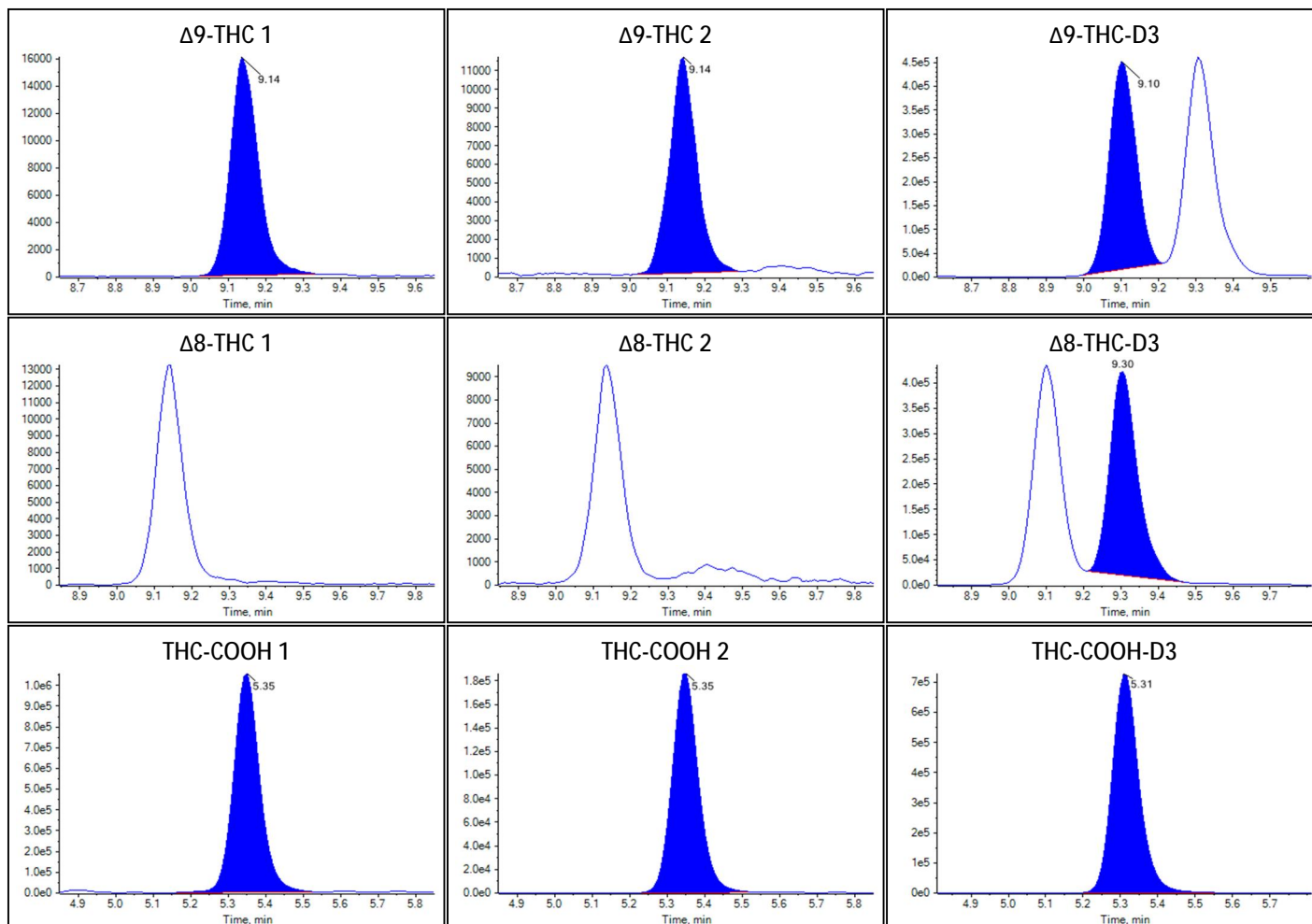
Identification Summary: THC-1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.007(Pass)	
THC-OH 2	331.1 / 105.1	1.005(Pass)	0.629(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.004(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.004(Pass)	0.705(Pass)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.007(Pass)	0.176(Pass)

Peak Review: THC-1



Peak Review: THC-1





Sample Summary

Sample Name	THC-2
Acquisition Date/Time	2022-09-23T23:19:10
Acquisition Method	THC.dam
Batch Name	20220923TSF Florida.dab
Results Table	20220923TSF
Sample Type	Unknown
File Name	20220923TSF.wiff
Position	26
Sample Comment	

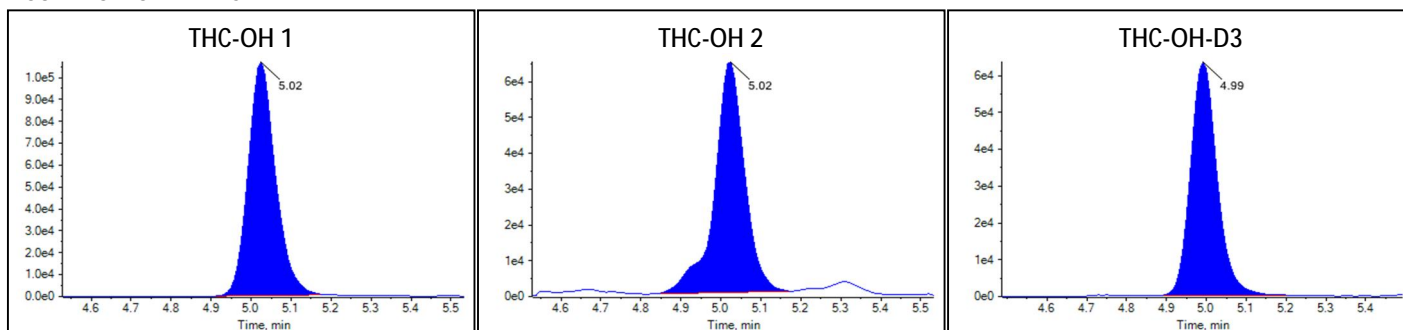
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.7140	15.138		
Δ^9 -THC	0.9914	33.796		
Δ^8 -THC	N/A	N/A		
THC-COOH	8.8231	92.485		

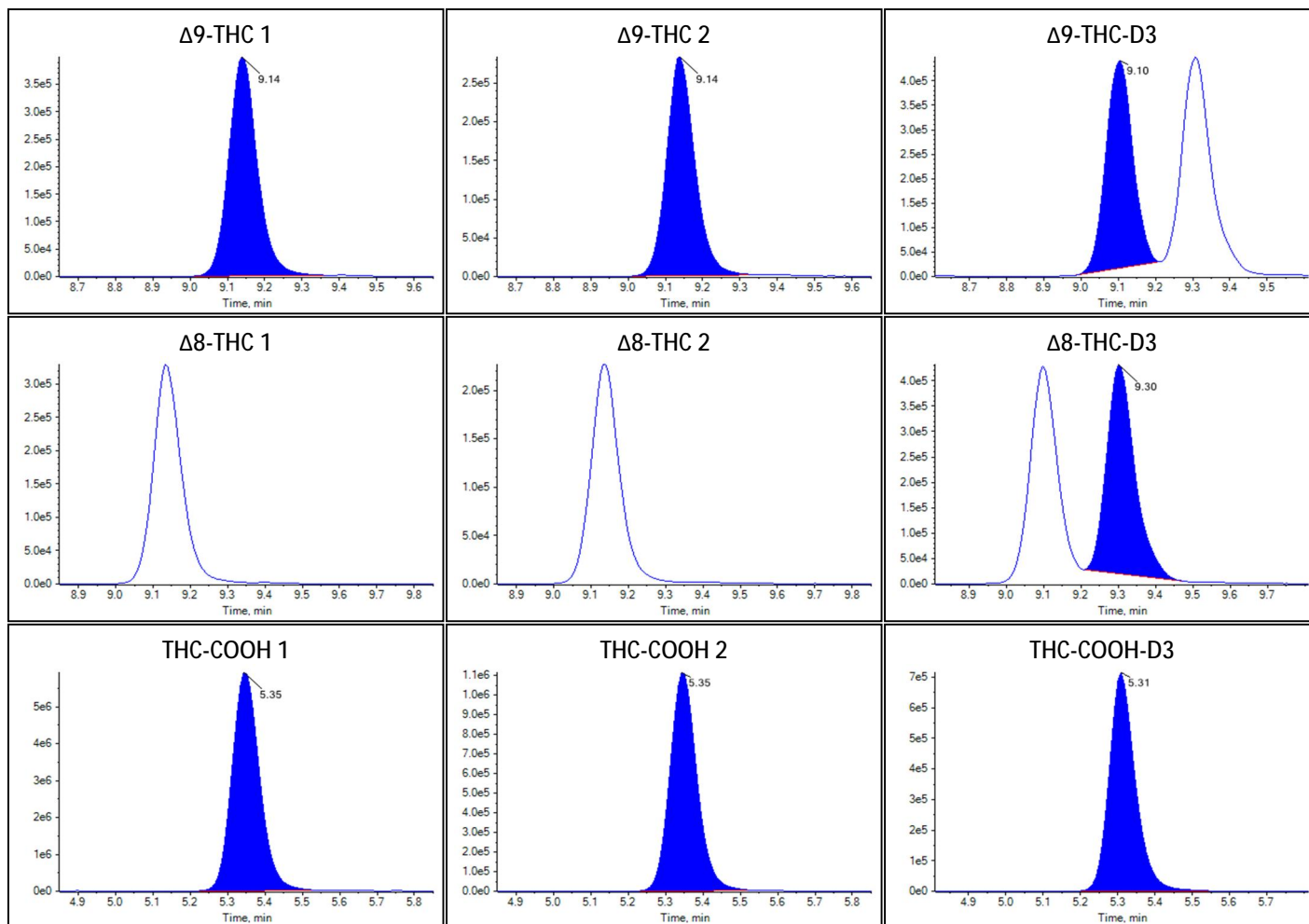
Identification Summary: THC-2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.007(Pass)	
THC-OH 2	331.1 / 105.1	1.006(Pass)	0.667(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.004(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.004(Pass)	0.703(Pass)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.007(Pass)	0.184(Pass)

Peak Review: THC-2



Peak Review: THC-2





Sample Summary

Sample Name	THC-3
Acquisition Date/Time	2022-09-23T23:33:15
Acquisition Method	THC.dam
Batch Name	20220923TSF Florida.dab
Results Table	20220923TSF
Sample Type	Unknown
File Name	20220923TSF.wiff
Position	27
Sample Comment	

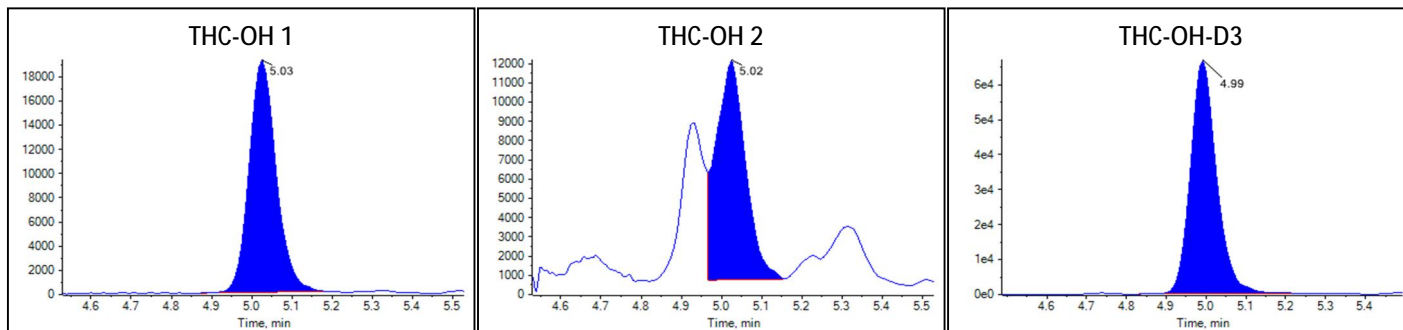
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.2939	2.694		
Δ^9 -THC	0.1758	5.885		
Δ^8 -THC	N/A	N/A		
THC-COOH	1.8581	19.009		

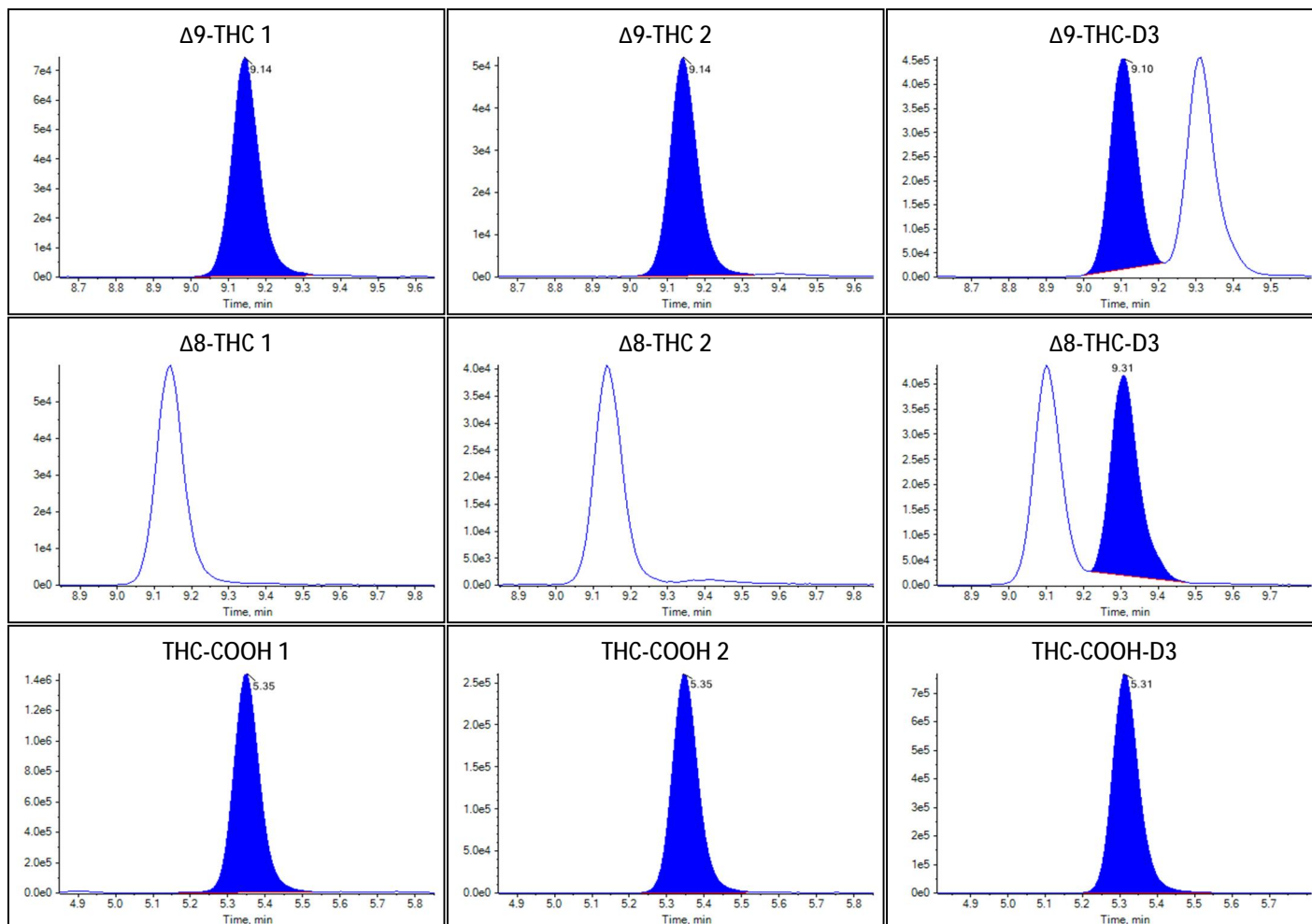
Identification Summary: THC-3

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.007(Pass)	
THC-OH 2	331.1 / 105.1	1.006(Pass)	0.644(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.004(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.004(Pass)	0.696(Pass)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.006(Pass)	0.180(Pass)

Peak Review: THC-3



Peak Review: THC-3





Sample Summary

Sample Name	FTC-2
Acquisition Date/Time	2022-09-23T23:47:21
Acquisition Method	THC.dam
Batch Name	20220923TSF Florida.dab
Results Table	20220923TSF
Sample Type	Unknown
File Name	20220923TSF.wiff
Position	28
Sample Comment	

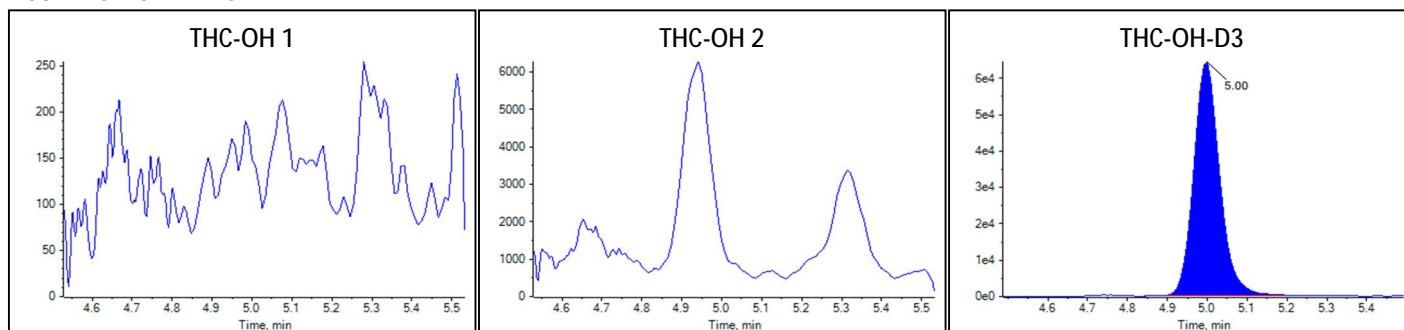
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	0.6346	21.409		
Δ^8 -THC	N/A	N/A		
THC-COOH	13.1925	138.581		

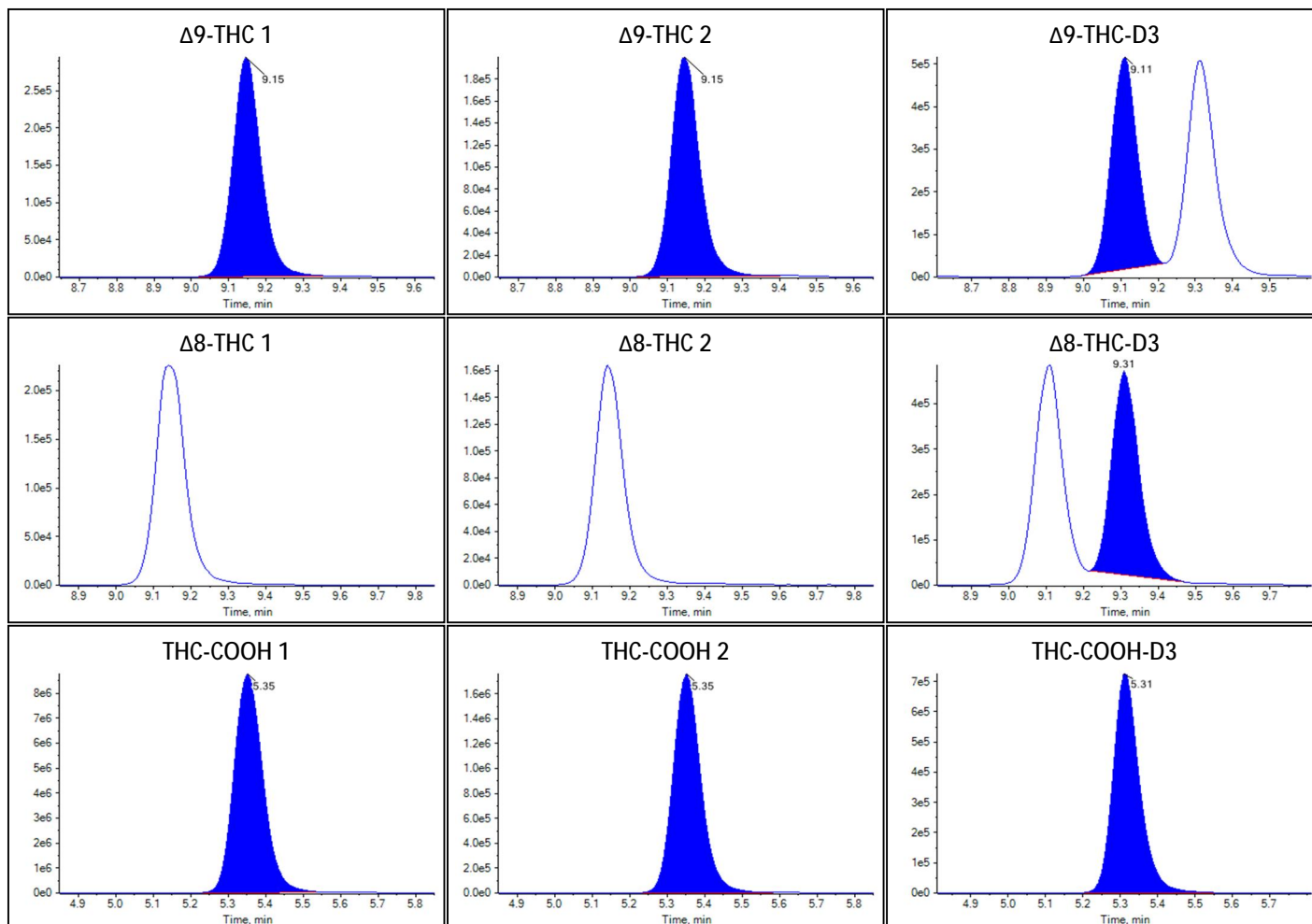
Identification Summary: FTC-2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ^9 -THC 1	315.1 / 193.1	1.004(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.004(Pass)	0.687(Pass)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.007(Pass)	0.192(Pass)

Peak Review: FTC-2



Peak Review: FTC-2





Sample Summary

Sample Name	FTC-7
Acquisition Date/Time	2022-09-24T00:01:26
Acquisition Method	THC.dam
Batch Name	20220923TSF Florida.dab
Results Table	20220923TSF
Sample Type	Unknown
File Name	20220923TSF.wiff
Position	29
Sample Comment	

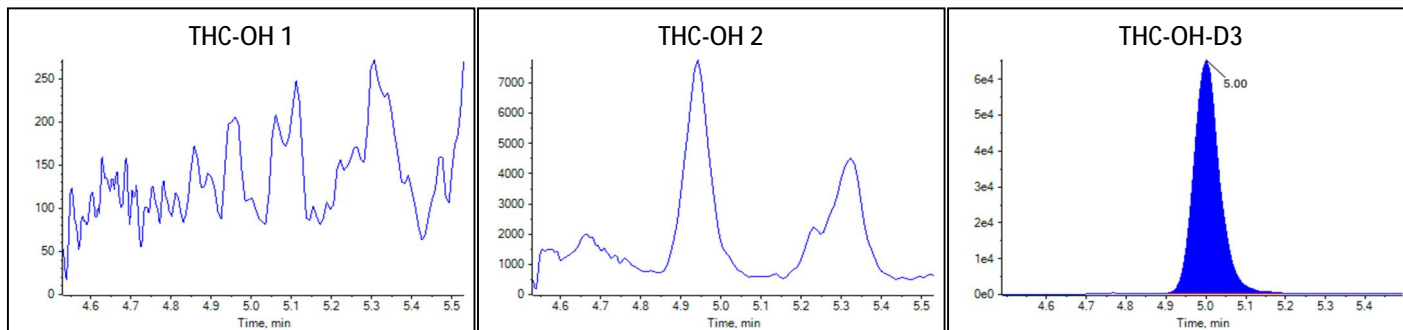
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	N/A	N/A		

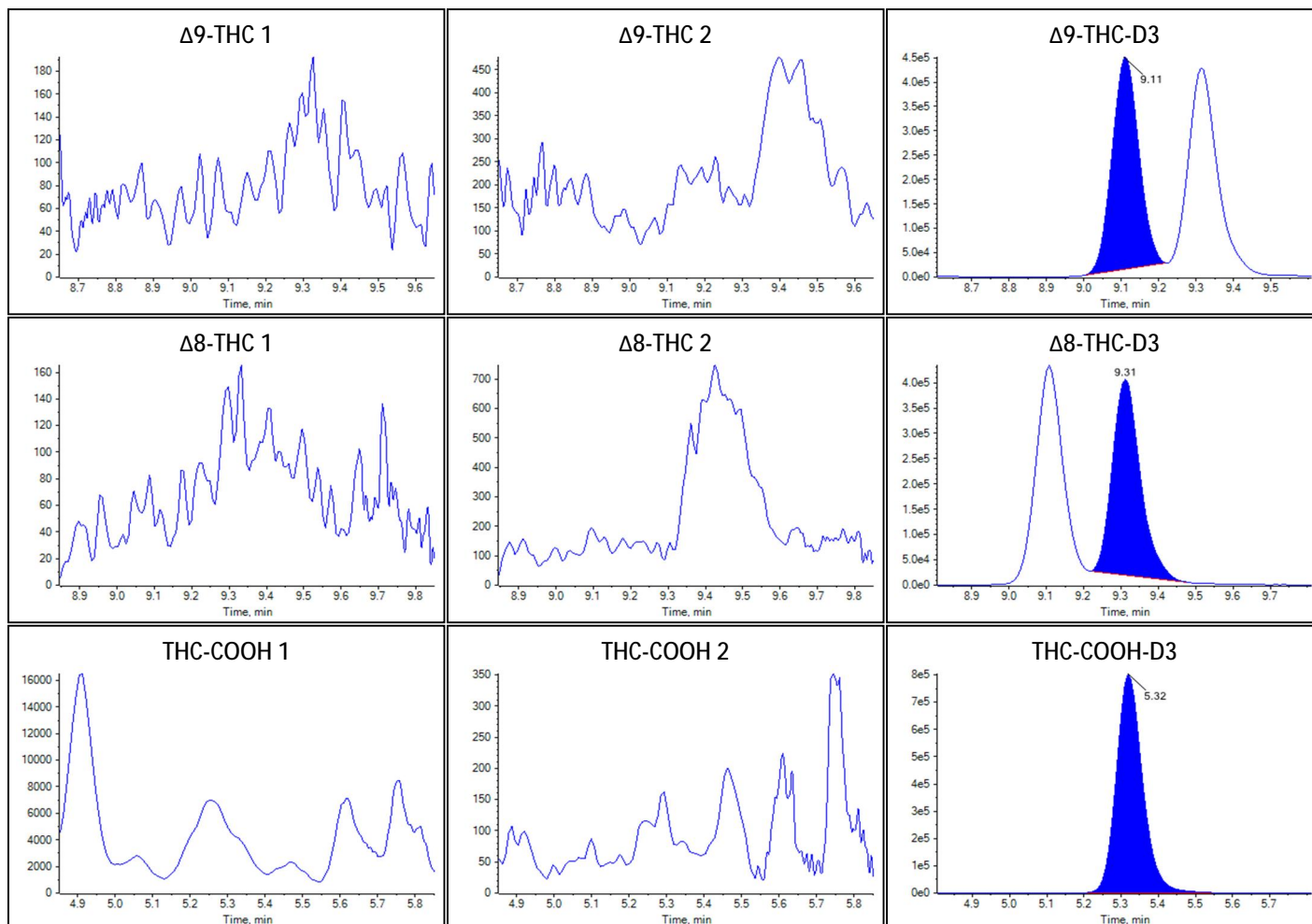
Identification Summary: FTC-7

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ^9 -THC 1	315.1 / 193.1	N/A	
Δ^9 -THC 2	315.1 / 123.0	N/A	N/A
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	N/A	
THC-COOH 2	343.0 / 191.0	N/A	N/A

Peak Review: FTC-7



Peak Review: FTC-7





Sample Summary

Sample Name	FTC-9
Acquisition Date/Time	2022-09-24T00:15:32
Acquisition Method	THC.dam
Batch Name	20220923TSF Florida.dab
Results Table	20220923TSF
Sample Type	Unknown
File Name	20220923TSF.wiff
Position	30
Sample Comment	

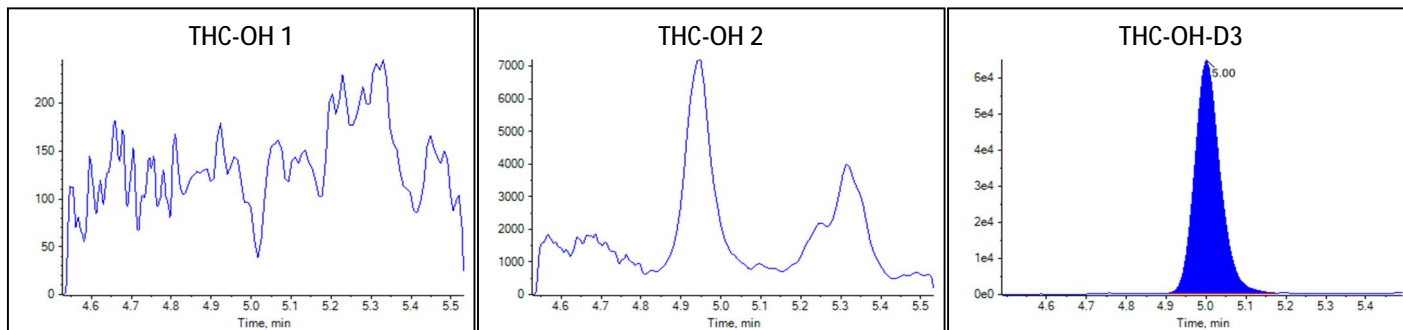
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ 9-THC	N/A	N/A		
Δ 8-THC	N/A	N/A		
THC-COOH	N/A	N/A		

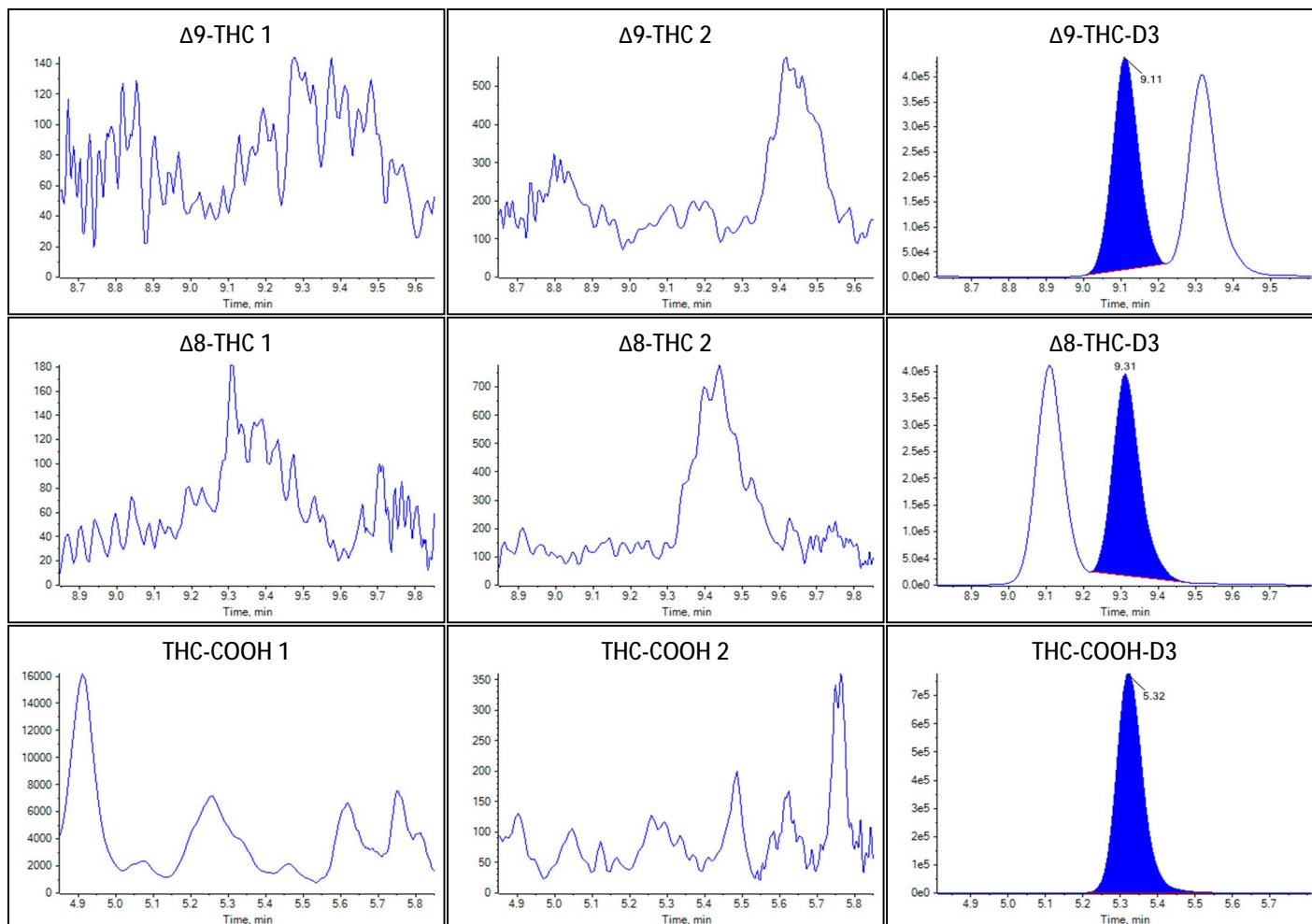
Identification Summary: FTC-9

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ 9-THC 1	315.1 / 193.1	N/A	
Δ 9-THC 2	315.1 / 123.0	N/A	N/A
Δ 8-THC 1	315.1 / 193.1	N/A	
Δ 8-THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	N/A	
THC-COOH 2	343.0 / 191.0	N/A	N/A

Peak Review: FTC-9



Peak Review: FTC-9





Sample Summary

Sample Name	High Control
Acquisition Date/Time	2022-09-24T00:29:37
Acquisition Method	THC.dam
Batch Name	20220923TSF Florida.dab
Results Table	20220923TSF
Sample Type	Quality Control
File Name	20220923TSF.wiff
Position	31
Sample Comment	

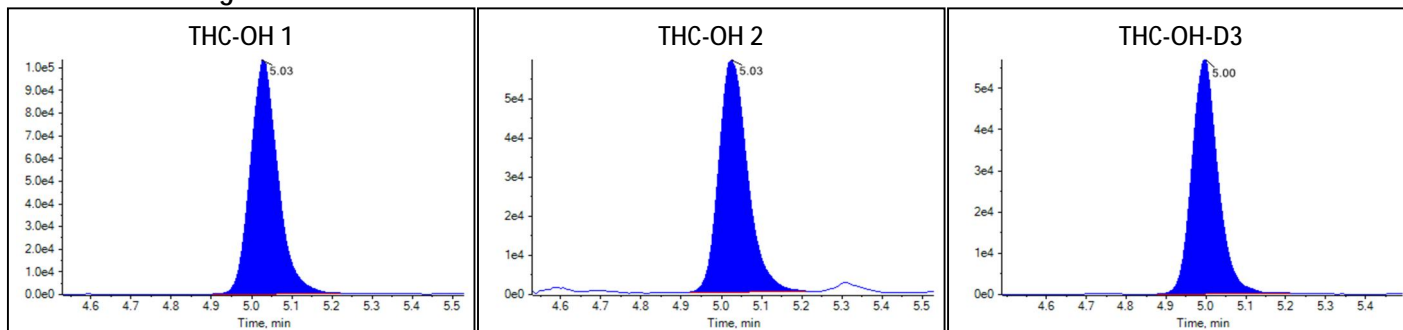
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.9005	16.773		
Δ^9 -THC	2.3823	85.115		
Δ^8 -THC	1.7999	94.073		
THC-COOH	7.3211	76.641		

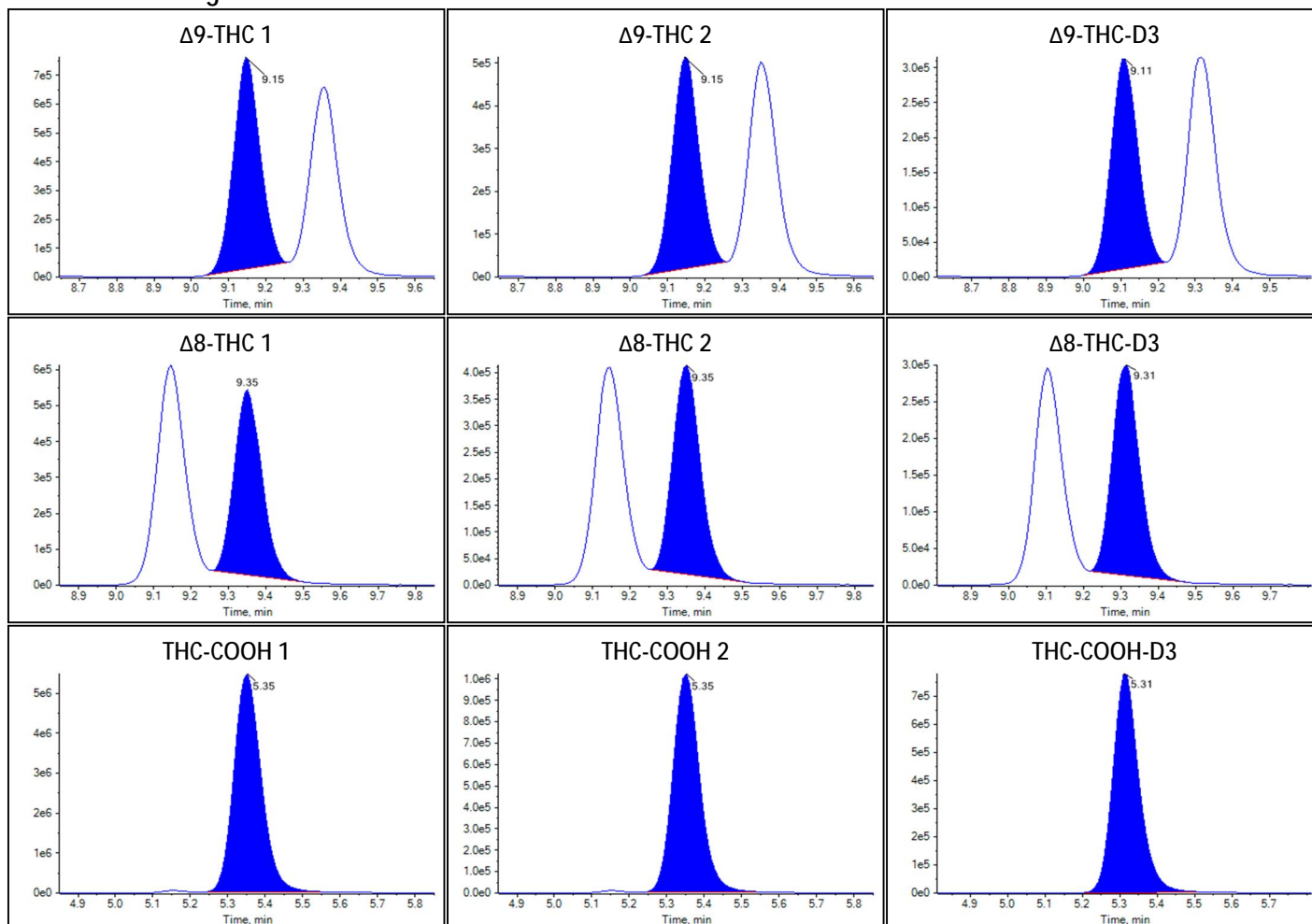
Identification Summary: High Control

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.007(Pass)	
THC-OH 2	331.1 / 105.1	1.006(Pass)	0.603(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.004(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.004(Pass)	0.686(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.004(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.004(Pass)	0.765(Pass)
THC-COOH 1	343.0 / 299.1	1.007(Pass)	
THC-COOH 2	343.0 / 191.0	1.007(Pass)	0.183(Pass)

Peak Review: High Control



Peak Review: High Control



Florida and 2022 Proficiency Test Challenge Sample Comparisons

THC-OH

THC-OH Results (ng/mL)				
Sample Name	FL/PT Result	FL Uncertainty (\pm)	MSP Result 1	MSP Result 2
F1 - B12*	33	10	15	15
F2 - B13*	2	0.6	1.1	1.2
F3 - B17*	Neg	N/A	Neg	Neg
F4 - B23*	2	0.6	1.4	1.3
F5 - B46	3.4	1	3.4	2.9
F6 - B47	<1	N/A	Neg	Neg
F7 - B52**	5.1	1.5	Neg	Neg
F8 - B54	Neg	N/A	Neg	Neg
F9 - B94	1	0.3	Neg	Neg
F10 - B98	<1	N/A	Neg	Neg
F11 - B113	Neg	N/A	Neg	Neg
F12 - B115	1.8	0.6	2.0	2.0
F13 - 124	<1	N/A	< 1	1.0
F14 - B126	<1	N/A	< 1	1.1
CTS-2	0.9327	-	Neg	Neg
THC-1	2.39	-	1.3	1.4
THC-2	25.81	-	14	15
THC-3	4.35	-	2.5	2.6
FTC-2	Neg	N/A	Neg	Neg
FTC-7	Neg	N/A	Neg	Neg
FTC-9	Neg	N/A	Neg	Neg

Florida and 2022 Proficiency Test Challenge Sample Comparisons

Δ9-THC

Δ9-THC Results (ng/mL)				
Sample Name	FL/PT Result	FL Uncertainty (±)	MSP Result 1	MSP Result 2
F1 - B12*	37	11	5.2	5.1
F2 - B13*	8.9	5.8	< 1	< 1
F3 - B17*	5.8	1.7	< 1	< 1
F4 - B23*	2.4	0.7	Neg	Neg
F5 - B46	9.7	2.9	11	8.9
F6 - B47	Neg	N/A	< 1	< 1
F7 - B52**	15	5	Neg	Neg
F8 - B54	Neg	N/A	Neg	Neg
F9 - B94	Neg	N/A	1.4	1.4
F10 - B98	Neg	N/A	< 1	< 1
F11 - B113	1.1	0.4	< 1	Neg
F12 - B115	4.2	1.3	4.1	4.1
F13 - 124	5.7	1.7	4.9	4.9
F14 - B126	2.3	0.7	2.1	2.2
CTS-2	1.0673	-	1.0	1.0
THC-1	1.57	-	1.2	1.3
THC-2	36.8	-	30	33
THC-3	6.92	-	5.8	5.8
FTC-2	22.23	-	20	21
FTC-7	Neg	N/A	Neg	Neg
FTC-9	Neg	N/A	Neg	Neg

Florida and 2022 Proficiency Test Challenge Sample Comparisons

$\Delta 8$ -THC

$\Delta 8$ -THC Results (ng/mL)				
Sample Name	FL/PT Result	FL Uncertainty (\pm)	MSP Result 1	MSP Result 2
F1 - B12*	Present 0.29	N/A	Neg	Neg
F2 - B13*	Neg	N/A	Neg	Neg
F3 - B17*	Neg	N/A	Neg	Neg
F4 - B23*	Neg	N/A	Neg	Neg
F5 - B46	Neg	N/A	Neg	Neg
F6 - B47	Neg	N/A	Neg	Neg
F7 - B52**	Neg	N/A	Neg	Neg
F8 - B54	1.8	N/A	1.9	1.7
F9 - B94	Neg	N/A	Neg	Neg
F10 - B98	Neg	N/A	Neg	Neg
F11 - B113	Neg	N/A	Neg	Neg
F12 - B115	Neg	N/A	Neg	Neg
F13 - 124	Neg	N/A	Neg	Neg
F14 - B126	Neg	N/A	Neg	Neg
CTS-2	Neg	N/A	Neg	Neg
THC-1	Neg	N/A	Neg	Neg
THC-2	Neg	N/A	Neg	Neg
THC-3	Neg	N/A	Neg	Neg
FTC-2	Neg	N/A	Neg	Neg
FTC-7	Neg	N/A	Neg	Neg
FTC-9	Neg	N/A	Neg	Neg

Florida and 2022 Proficiency Test Challenge Sample Comparisons

THC-COOH

THC-COOH Results (ng/mL)				
Sample Name	FL/PT Result	FL Uncertainty (\pm)	MSP Result 1	MSP Result 2
F1 - B12*	425	110	> 100	> 100
F2 - B13*	44	11	40	40
F3 - B17*	61	15	82	88
F4 - B23*	25	6	29	29
F5 - B46	86	21	> 100	> 100
F6 - B47	8.8	2.2	13	12
F7 - B52**	118	29	92	92
F8 - B54	Neg	N/A	Neg	Neg
F9 - B94	12	3	16	15
F10 - B98	57	14	40	42
F11 - B113	Present	N/A	6.8	6.7
F12 - B115	40	10	38	39
F13 - 124	23	6	22	23
F14 - B126	72	18	61	64
CTS-2	45.04	-	31	33
THC-1	16.22	-	13	14
THC-2	103.34	-	85	92
THC-3	22.32	-	18	19
FTC-2	155.97	-	> 100	> 100
FTC-7	Neg	N/A	Neg	Neg
FTC-9	Neg	N/A	Neg	Neg

*These samples were stored frozen for >6 months prior to MSP reanalysis. MSP's decreased values are expected.

Proficiency test samples were originally analyzed over the course of 2022. The result provided was the consensus mean of all participants. College of American Pathologist (CAP) proficiency test samples are prepared in sheep blood. Collaborative Testing Services (CTS) proficiency tests samples are prepared in human whole blood.

CTS-2 was a proficiency test taken in May of 2022. The mean value of all participants was 45.04 ng/mL, with an acceptable range of \pm 2 standard deviations (27.29 – 62.8 ng/mL). The value originally reported to the provider, with the discontinued GC/MS method, was 49 ng/mL. The two values obtained with this validated method are lower (31 and 33 ng/mL) however fall within the acceptable range. It should also be noted that there is an expectation that the results may be lower, due to the well documented instability of these analytes.

**Florida reanalyzed this sample and obtained results that were consistent with MSP's reanalysis. Their results were negative for THC-OH and delta-9-THC. They obtained 103.99 ng/mL of THC-COOH.

Florida's LLOQ is:

- Delta-9-THC 1 ng/mL
- THC-OH 1 ng/mL
- THC-COOH 5 ng/mL

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Wisconsin Challenge Sample Comparisons

THC-OH

THC-OH Results (ng/mL)			
Sample Name	WI Result	MSP Result 1	MSP Result 2
W1	10	7.5	7.4
W2	Neg	Neg	Neg
W3	Neg	Neg	Neg
W4	Invalid	6.0	6.1
W5	6.9	5.0	5.0
W6	1.8	Neg	Neg
W7	Invalid	2.8	3.0
W8	Neg	Neg	Neg
W9	Invalid	Neg	Neg
W10	Neg	Neg	Neg
W11	3.1	2.1	2.1
W12	Neg	Neg	Neg
W13	Invalid	1.5	1.7
W14	Neg	Neg	Neg
W15	4.9	4.6	4.8
W16	Invalid	Neg	Neg
W17	6.4	6.1	6.3
W18	1.2	Neg	1.1
W19	Neg	Neg	Neg
W20	3.8	2.9	3.0

Wisconsin Challenge Sample Comparisons

Δ 9-THC

Δ 9-THC Results (ng/mL)			
Sample Name	WI Result	MSP Result 1	MSP Result 2
W1	44	41	45
W2	Neg	Neg	Neg
W3	Neg	Neg	Neg
W4	8.7	8.2	8.6
W5	10	8.7	9.5
W6	Neg	Neg	Neg
W7	16	13	15.2
W8	Neg	Neg	Neg
W9	Invalid	Neg	Neg
W10	1.5	1.4	1.5
W11	4.4	3.7	4.0
W12	Neg	< 1	< 1
W13	Neg	< 1	< 1
W14	Neg	Neg	Neg
W15	13	14	15
W16	Invalid	2.8	3.4
W17	120	> 100	> 100
W18	2.4	2.2	2.4
W19	Neg	Neg	Neg
W20	22	19	21

Wisconsin Challenge Sample Comparisons

$\Delta 8$ -THC

$\Delta 8$ -THC Results (ng/mL)			
Sample Name	WI Result	MSP Result 1	MSP Result 2
W1	Neg	Neg	Neg
W2	Neg	Neg	Neg
W3	Neg	Neg	Neg
W4	Neg	Neg	Neg
W5	Neg	Neg	Neg
W6	Neg	Neg	Neg
W7	Neg	Neg	Neg
W8	Neg	Neg	Neg
W9	Invalid	23	26
W10	Neg	Neg	Neg
W11	Neg	Neg	Neg
W12	Neg	Neg	Neg
W13	Neg	Neg	Neg
W14	Neg	Neg	Neg
W15	Neg	Neg	Neg
W16	Invalid	17	20
W17	Neg	Neg	Neg
W18	Neg	Neg	Neg
W19	Neg	Neg	Neg
W20	Neg	Neg	Neg

Wisconsin Challenge Sample Comparisons

THC-COOH

THC-COOH Results (ng/mL)			
Sample Name	WI Result	MSP Result 1	MSP Result 2
W1	150	> 100	> 100
W2	Neg	< 5	< 5
W3	Neg	Neg	Neg
W4	130	> 100	> 100
W5	>250	> 100	> 100
W6	34	29	30
W7	89	79	85
W8	6.8	5.5	6.0
W9	Invalid	8.0	8.3
W10	22	20	22
W11	100	87	91
W12	9	7.4	7.9
W13	66	57	61
W14	Neg	< 5	< 5
W15	86	94	100
W16	Invalid	65	49
W17	86	75	80
W18	26	25	26
W19	Neg	< 5	< 5
W20	94	84	89

Challenge sample 3 and 14 were spiked with 50 ng/mL and 1700 ng/mL of CBD, respectively. The four analytes within MSP's scope of analysis were negative.

Wisconsin's lower limit of quantitation (LLOQ) is:

- THC 1 ng/mL
- THC-OH 1 ng/mL
- THC-COOH 5 ng/mL

The original analysis conducted by the Wisconsin Laboratory ranged from April 25, 2022 (W1) to July 11, 2022 (W20).

W9 and W16 would not have had THC-COOH reported due to the presence of delta-8-THC-COOH. The values were included in the spreadsheet to demonstrate that THC-COOH was detected.

Cannabinoid Lot Log	
Date	09-28-22
Analyst	JLG
Checked tubes	N/A
Sample preparation	
Sample Pipette	007
Blank Blood	FU1
Standards	09-14-22 JLG
Controls	09-14-22 JLG
Standards/Controls Pipette	064
Internal Standard	09-14-22 SB
Internal Standard Pipette	103
0.1 % formic acid in H ₂ O	09-16-22 DMC
Extraction	
SLE Cartridge	820-2-26
MTBE	L322A-4
B: 0.1% formic acid in ACN	08-29-22 SB
A: 0.1 % formic acid in H ₂ O	09-21-22 DMC
Instrumentation	
A: 0.1 % formic acid in H ₂ O	09-21-22 DMC
B: 0.1% formic acid in ACN	09-14-22 DMC
Column Serial Number	USCGC17438
Instrument	21-1
Sequence Check:	
Notes:	
W1-20	



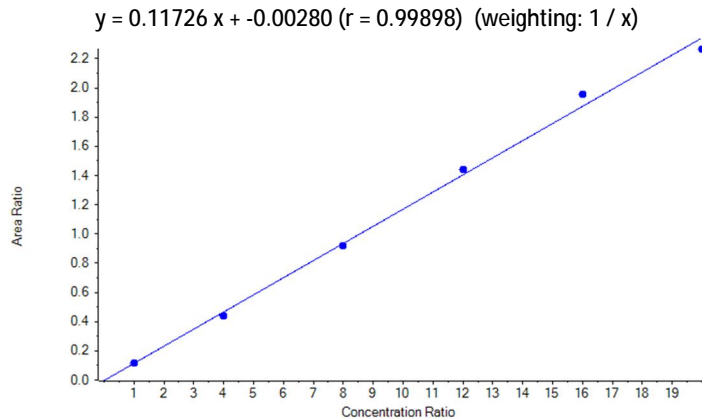
Batch Summary

Acquisition Method	THC.dam
Project	THC
Result Table	20220928 JLG Wisconsin

Result Table List

Sample Name	Sample Type	Position	Acquisition Time	Sample Comment
Standard 1	Standard	31	2022-09-29 00:27:53	
Standard 2	Standard	32	2022-09-29 00:41:56	
Standard 3	Standard	33	2022-09-29 00:56:02	
Standard 4	Standard	34	2022-09-29 01:10:04	
Standard 5	Standard	35	2022-09-29 01:24:09	
Standard 6	Standard	36	2022-09-29 01:38:12	
Negative	Quality Control	37	2022-09-29 01:52:14	
Medium	Quality Control	38	2022-09-29 02:06:17	
5 µL injection	Unknown	31	2022-09-29 02:20:22	
W1	Unknown	41	2022-09-29 02:34:27	
W2	Unknown	42	2022-09-29 02:48:33	
W3	Unknown	43	2022-09-29 03:02:41	
W4	Unknown	44	2022-09-29 03:16:47	
W5	Unknown	45	2022-09-29 03:30:52	
W6	Unknown	46	2022-09-29 03:44:58	
W7	Unknown	47	2022-09-29 03:59:03	
W8	Unknown	48	2022-09-29 04:13:08	
W9	Unknown	49	2022-09-29 04:27:14	
W10	Unknown	50	2022-09-29 04:41:16	
W11	Unknown	51	2022-09-29 04:55:22	
W12	Unknown	52	2022-09-29 05:09:27	
W13	Unknown	53	2022-09-29 05:23:32	
W14	Unknown	54	2022-09-29 05:37:38	
W15	Unknown	55	2022-09-29 05:51:43	
W16	Unknown	56	2022-09-29 06:05:48	
W17	Unknown	57	2022-09-29 06:19:54	
W18	Unknown	58	2022-09-29 06:33:59	
W19	Unknown	59	2022-09-29 06:48:08	
Low	Quality Control	39	2022-09-29 07:02:13	
W20	Unknown	60	2022-09-29 07:16:18	
High	Quality Control	40	2022-09-29 07:30:24	

Calibration Summary: THC-OH



Analyte Transition Mass	
Internal Standard	THC-OH-D3
I.S. Transition Mass	334.1 / 196.1
THC-OH 1	331.1 / 193.1
THC-OH 2	331.1 / 105.1
Relative Retention time: Expected (Acceptance Range)	
THC-OH 1	1.007 (0.982-1.032)
THC-OH 2	1.006 (0.981-1.031)
Ion Ratio: Expected (Acceptance Range)	
THC-OH 2	0.631 (0.505-0.757)
THC-OH comment	

Quantitative Summary: THC-OH

Sample Name	Area Ratio	Actual Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
Standard 1	0.1193	1.00	1.041	104.13
Standard 2	0.4384	4.00	3.763	94.07
Standard 3	0.9185	8.00	7.857	98.21
Standard 4	1.4407	12.00	12.309	102.58
Standard 5	1.9545	16.00	16.692	104.32
Standard 6	2.2649	20.00	19.338	96.69
Negative	N/A	0.00	N/A	N/A
Medium	1.1633	10.00	9.944	99.44
Low	0.2294	2.00	1.981	99.03
High	1.9879	18.00	16.976	94.31

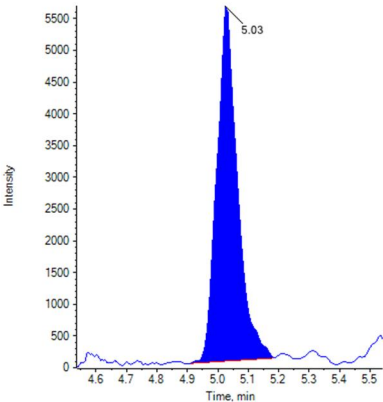
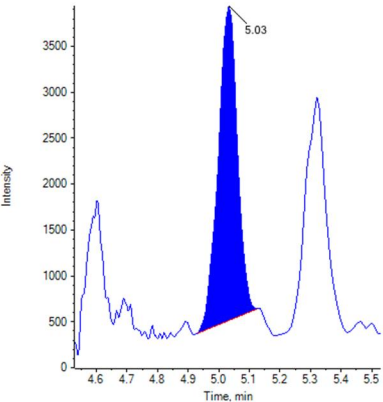
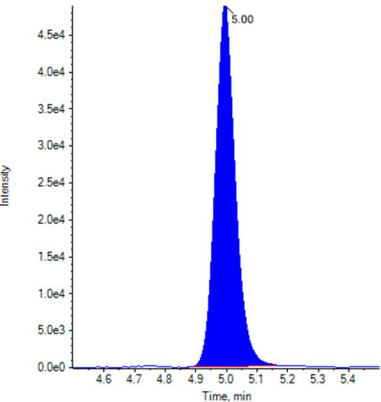
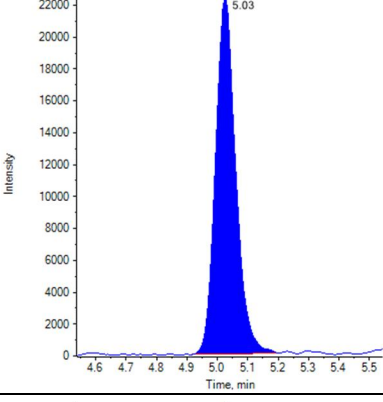
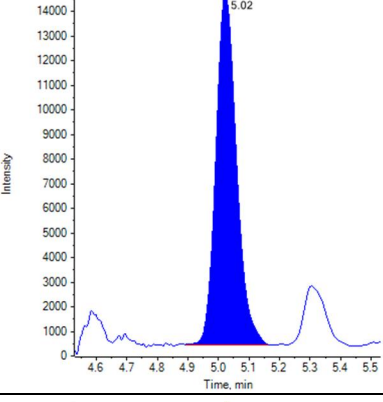
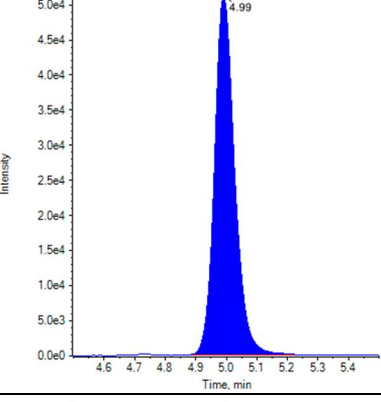
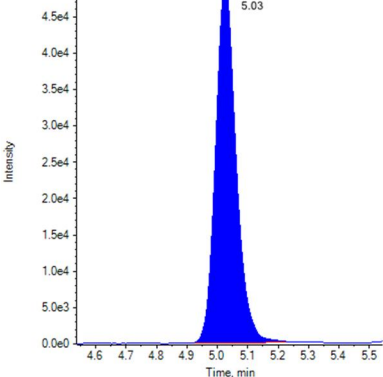
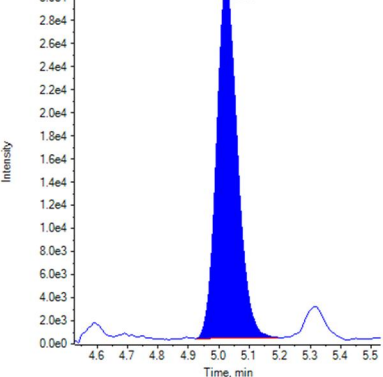
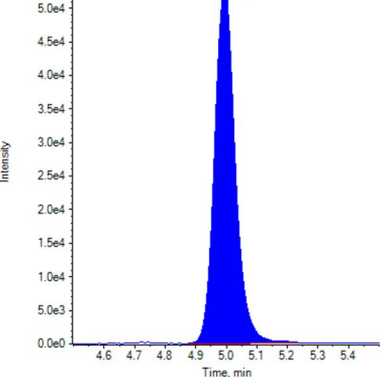
Identification Summary: THC-OH

Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 1	THC-OH 1	1.010 (Pass)	0.565 (Pass)
	THC-OH 2	1.010 (Pass)	
Standard 2	THC-OH 1	1.010 (Pass)	0.647 (Pass)
	THC-OH 2	1.010 (Pass)	
Standard 3	THC-OH 1	1.010 (Pass)	0.630 (Pass)
	THC-OH 2	1.010 (Pass)	
Standard 4	THC-OH 1	1.010 (Pass)	0.644 (Pass)
	THC-OH 2	1.010 (Pass)	
Standard 5	THC-OH 1	1.010 (Pass)	0.636 (Pass)
	THC-OH 2	1.010 (Pass)	
Standard 6	THC-OH 1	1.010 (Pass)	0.663 (Pass)
	THC-OH 2	1.010 (Pass)	
Negative	THC-OH 1	N/A ()	N/A ()

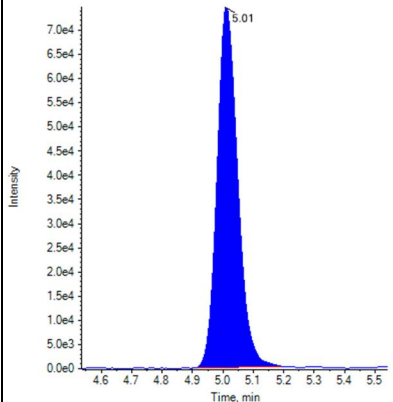
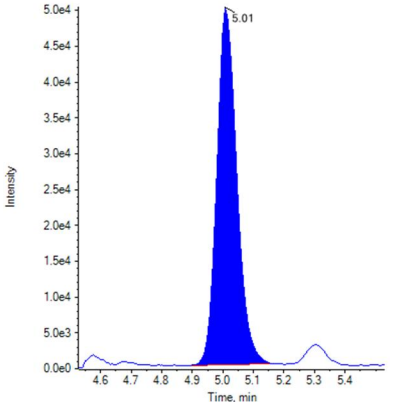
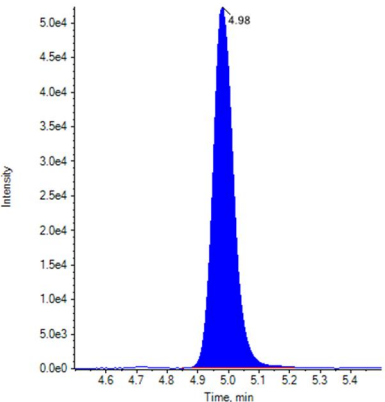
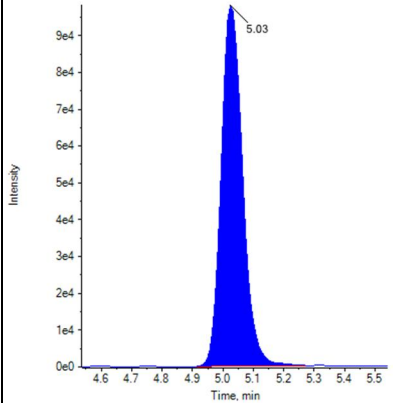
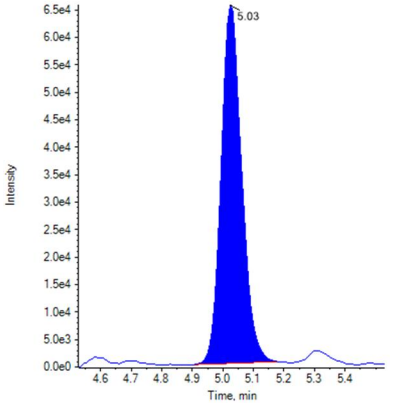
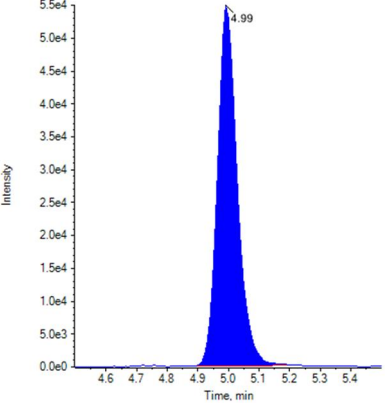
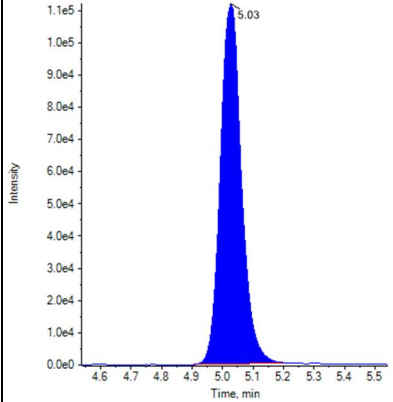
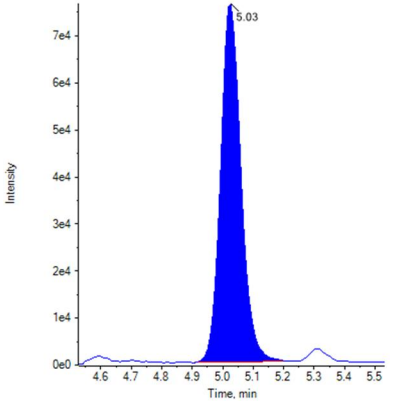
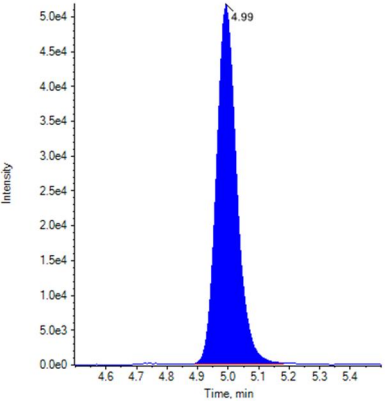
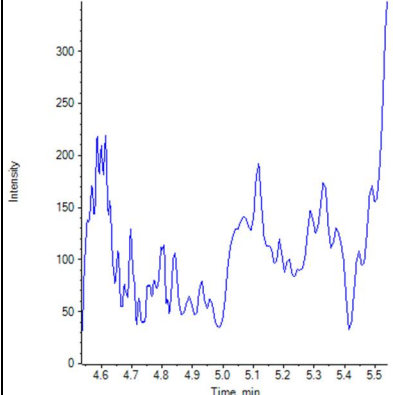
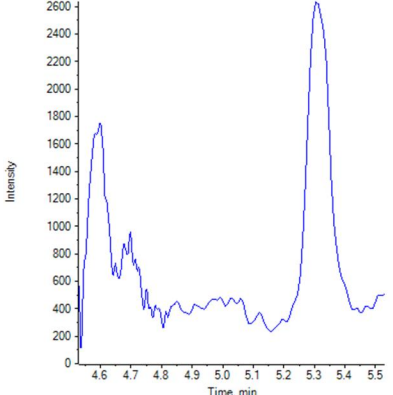
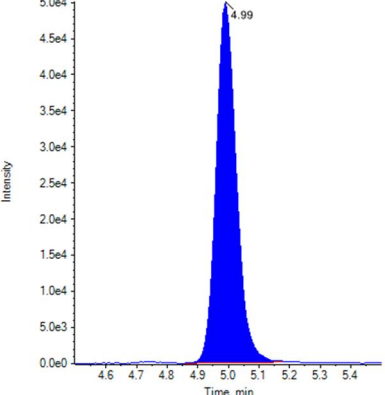
Identification Summary: THC-OH

Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
	THC-OH 2	N/A ()	
Medium	THC-OH 1 THC-OH 2	1.010 (Pass) 1.010 (Pass)	0.634 (Pass)
Low	THC-OH 1 THC-OH 2	1.010 (Pass) 1.010 (Pass)	0.608 (Pass)
High	THC-OH 1 THC-OH 2	1.010 (Pass) 1.010 (Pass)	0.637 (Pass)

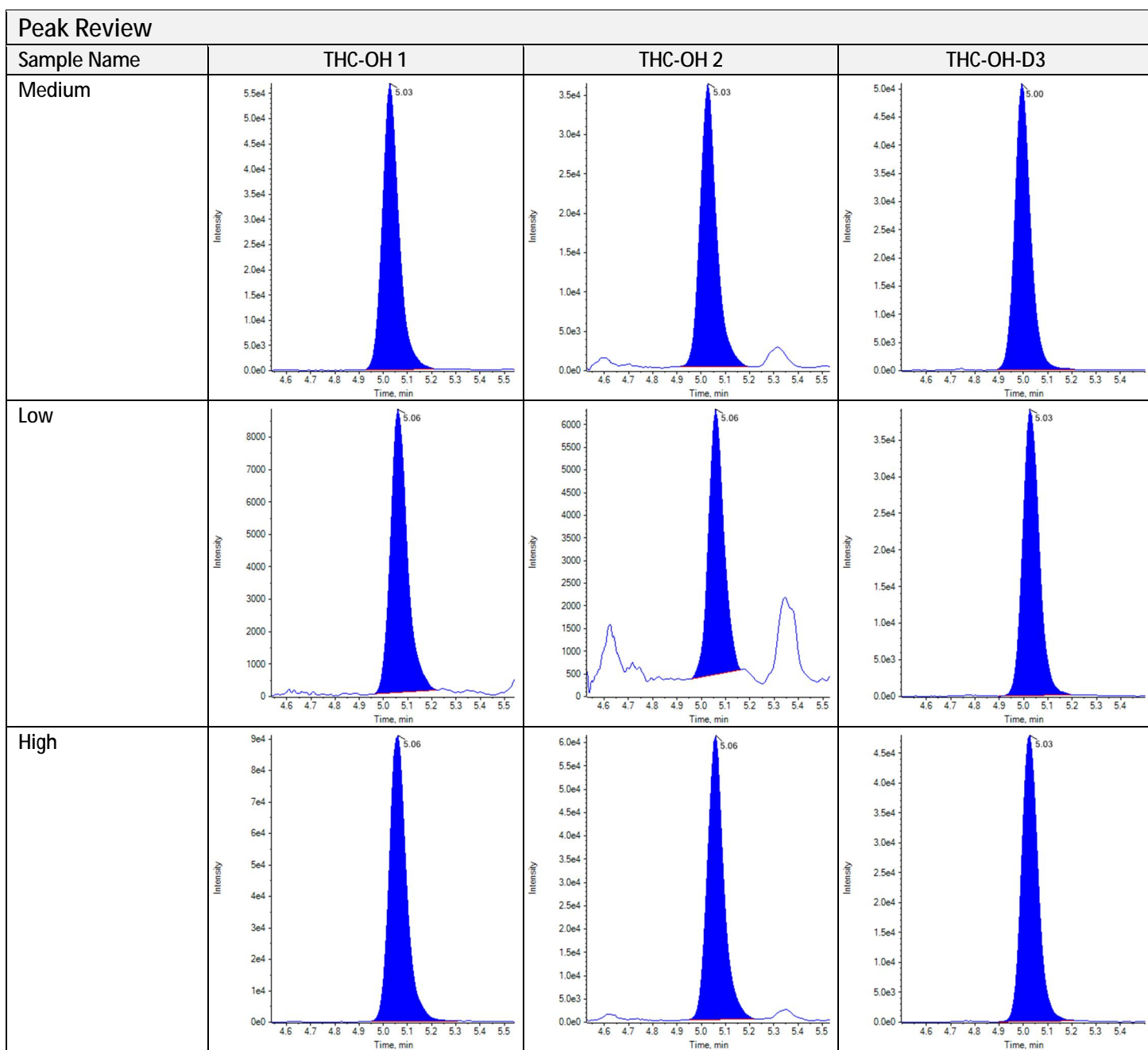
Peak Review

Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3
Standard 1			
Standard 2			
Standard 3			

Calibration/Control Report - Quantitative Analytes

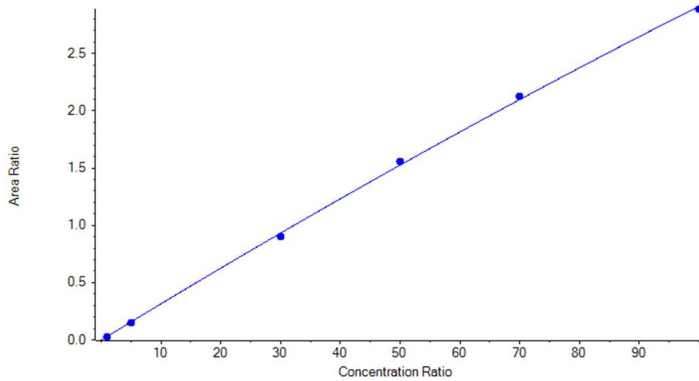
Peak Review			
Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3
Standard 4			
Standard 5			
Standard 6			
Negative			

Calibration/Control Report - Quantitative Analytes



Calibration Summary: $\Delta 9$ -THC

$$y = -2.83631e-5 x^2 + 0.03200 x + -0.00343 \quad (r = 0.99983) \quad (\text{weighting: } 1/x)$$



Analyte Transition Mass	
Internal Standard	$\Delta 9$ -THC-D3
I.S. Transition Mass	318.1 / 123.0
$\Delta 9$ -THC 1	315.1 / 193.1
$\Delta 9$ -THC 2	315.1 / 123.0
Relative Retention time: Expected (Acceptance Range)	
$\Delta 9$ -THC 1	1.004 (0.979-1.029)
$\Delta 9$ -THC 2	1.004 (0.979-1.029)
Ion Ratio: Expected (Acceptance Range)	
$\Delta 9$ -THC 2	0.685 (0.548-0.822)
$\Delta 9$ -THC comment	

Quantitative Summary: $\Delta 9$ -THC

Sample Name	Area Ratio	Actual Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
Standard 1	0.0296	1.00	1.032	103.19
Standard 2	0.1520	5.00	4.878	97.56
Standard 3	0.9016	30.00	29.026	96.75
Standard 4	1.5546	50.00	50.985	101.97
Standard 5	2.1279	70.00	71.071	101.53
Standard 6	2.8871	100.00	99.002	99.00
Negative	N/A	0.00	N/A	N/A
Medium	1.2139	40.00	39.413	98.53
Low	0.0914	3.00	2.971	99.03
High	2.5844	80.00	87.670	109.59

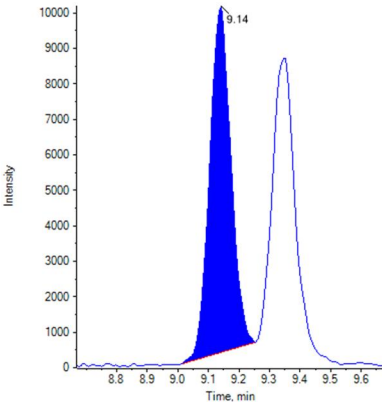
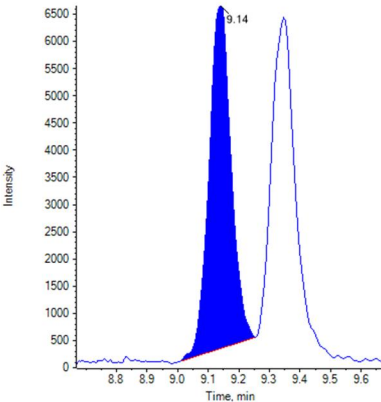
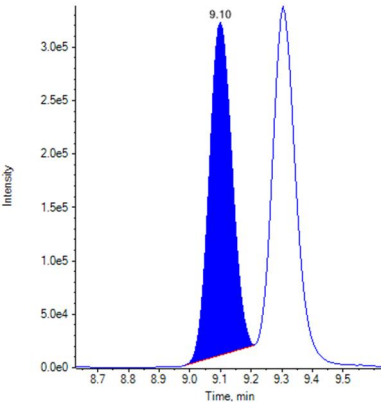
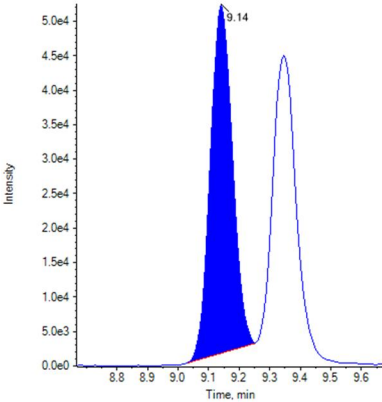
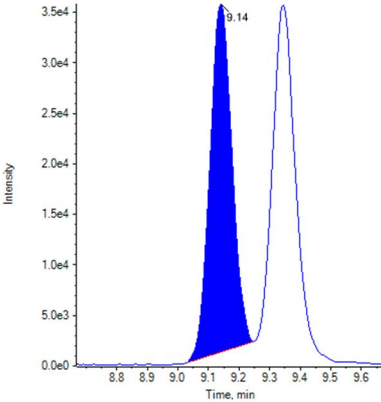
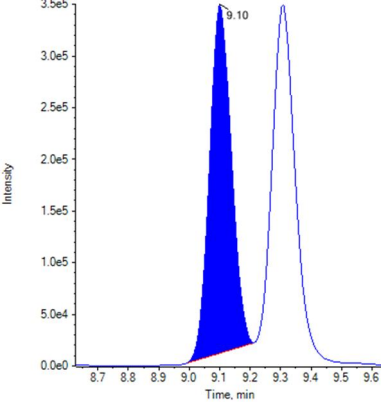
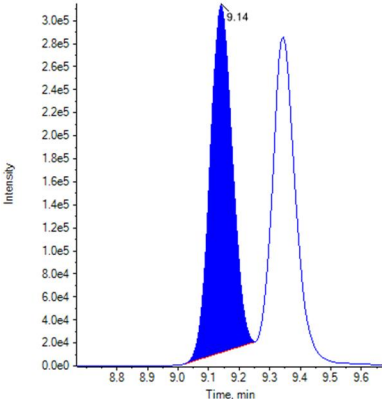
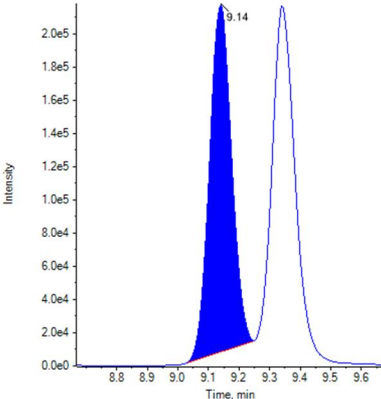
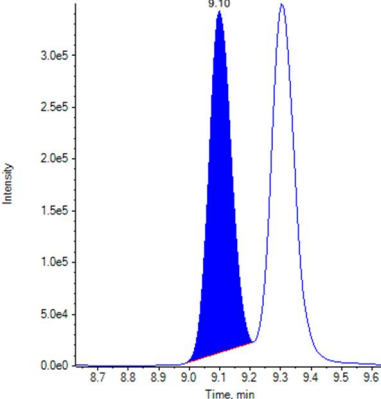
Identification Summary: $\Delta 9$ -THC

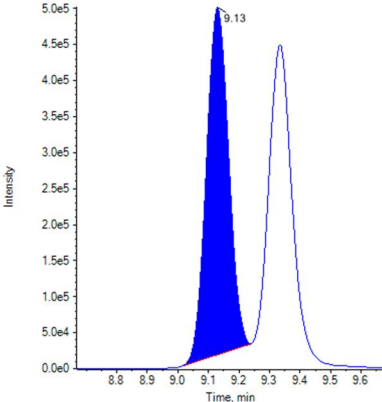
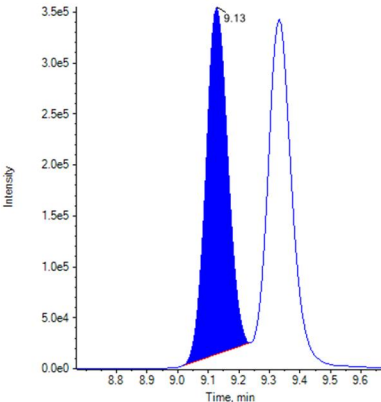
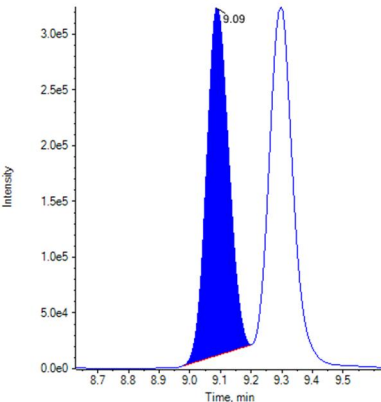
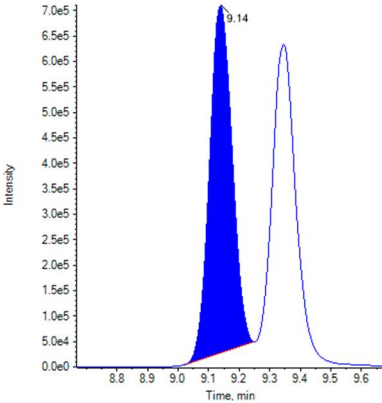
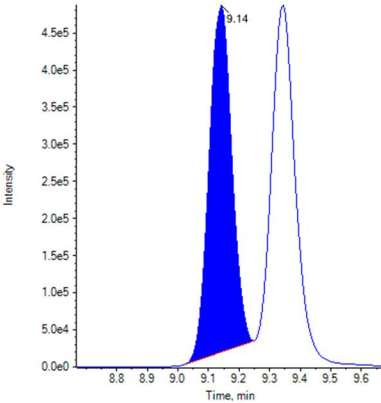
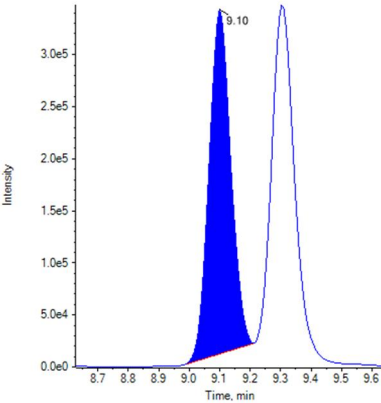
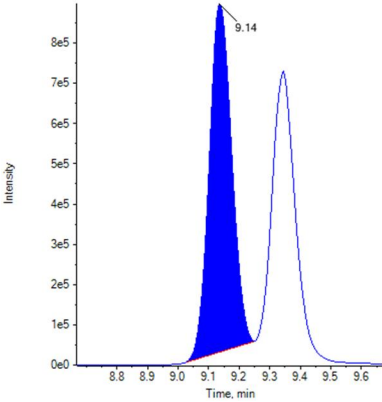
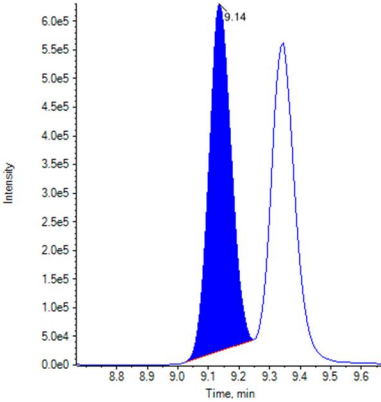
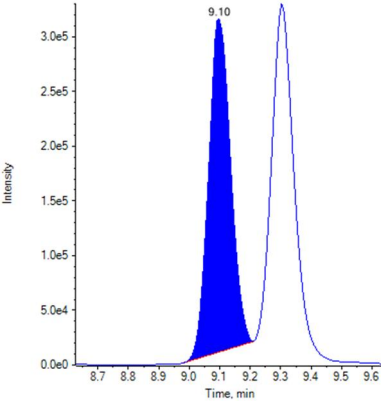
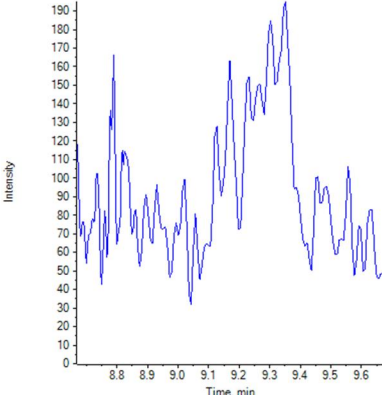
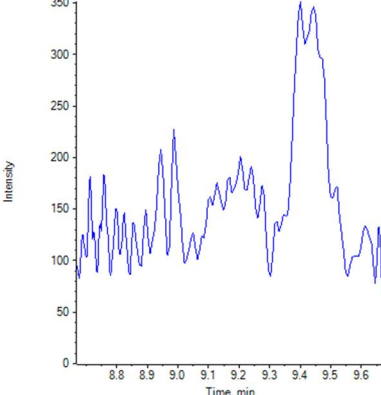
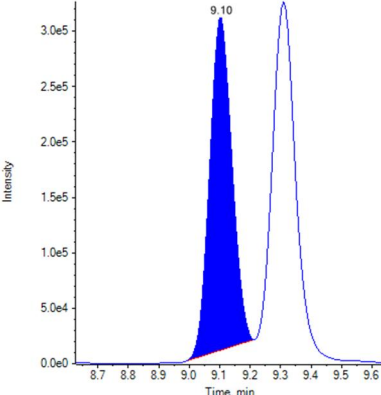
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 1	$\Delta 9$ -THC 1	1.000 (Pass)	0.671 (Pass)
	$\Delta 9$ -THC 2	1.000 (Pass)	
Standard 2	$\Delta 9$ -THC 1	1.000 (Pass)	0.681 (Pass)
	$\Delta 9$ -THC 2	1.000 (Pass)	
Standard 3	$\Delta 9$ -THC 1	1.000 (Pass)	0.690 (Pass)
	$\Delta 9$ -THC 2	1.000 (Pass)	
Standard 4	$\Delta 9$ -THC 1	1.000 (Pass)	0.692 (Pass)
	$\Delta 9$ -THC 2	1.000 (Pass)	
Standard 5	$\Delta 9$ -THC 1	1.000 (Pass)	0.689 (Pass)
	$\Delta 9$ -THC 2	1.000 (Pass)	
Standard 6	$\Delta 9$ -THC 1	1.000 (Pass)	0.688 (Pass)
	$\Delta 9$ -THC 2	1.000 (Pass)	
Negative	$\Delta 9$ -THC 1	N/A ()	N/A ()

Identification Summary: Δ^9 -THC

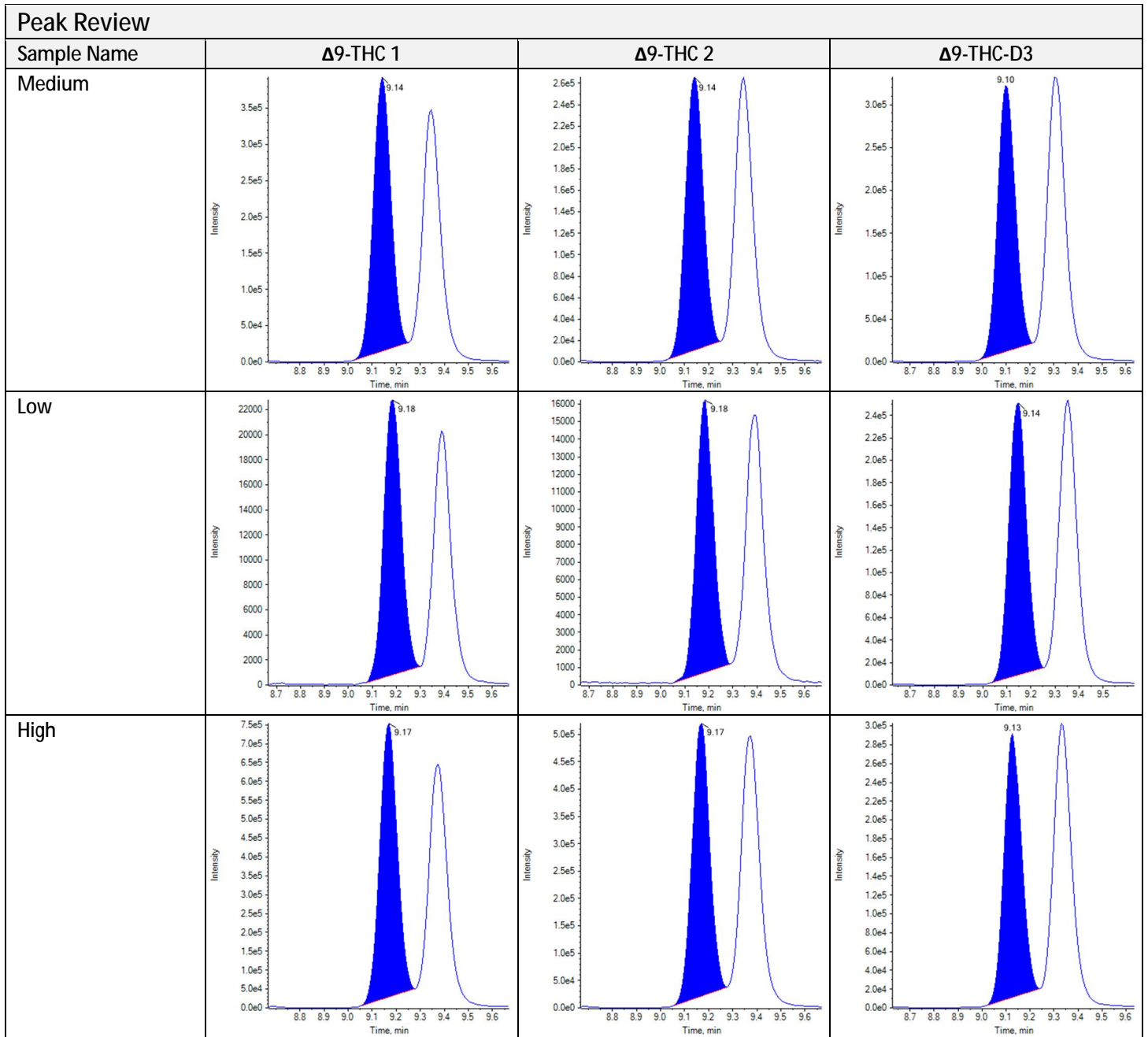
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
	Δ^9 -THC 2	N/A ()	
Medium	Δ^9 -THC 1 Δ^9 -THC 2	1.000 (Pass) 1.000 (Pass)	0.684 (Pass)
Low	Δ^9 -THC 1 Δ^9 -THC 2	1.000 (Pass) 1.000 (Pass)	0.680 (Pass)
High	Δ^9 -THC 1 Δ^9 -THC 2	1.000 (Pass) 1.000 (Pass)	0.691 (Pass)

Peak Review

Sample Name	Δ^9 -THC 1	Δ^9 -THC 2	Δ^9 -THC-D3
Standard 1			
Standard 2			
Standard 3			

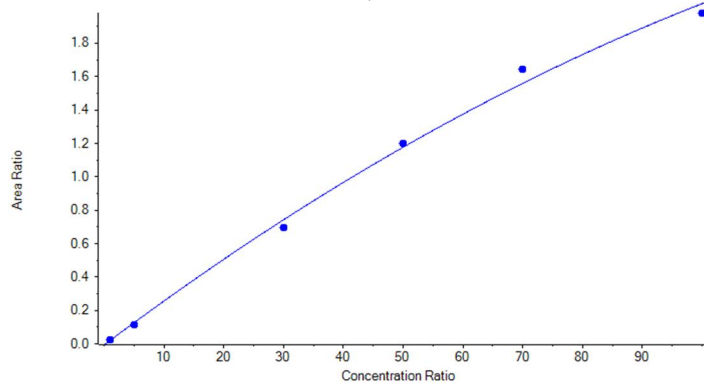
Peak Review			
Sample Name	$\Delta 9$ -THC 1	$\Delta 9$ -THC 2	$\Delta 9$ -THC-D3
Standard 4			
Standard 5			
Standard 6			
Negative			

Calibration/Control Report - Quantitative Analytes



Calibration Summary: $\Delta 8$ -THC

$$y = -6.47952e-5 x^2 + 0.02691 x + -0.00685 \quad (r = 0.99897) \quad (\text{weighting: } 1/x)$$



Analyte Transition Mass	
Internal Standard	$\Delta 8$ -THC-D3
I.S. Transition Mass	318.1 / 123.0
$\Delta 8$ -THC 1	315.1 / 193.1
$\Delta 8$ -THC 2	315.1 / 123.1
Relative Retention time: Expected (Acceptance Range)	
$\Delta 8$ -THC 1	1.004 (0.979-1.029)
$\Delta 8$ -THC 2	1.004 (0.979-1.029)
Ion Ratio: Expected (Acceptance Range)	
$\Delta 8$ -THC 2	0.769 (0.615-0.923)
$\Delta 8$ -THC comment	

Quantitative Summary: $\Delta 8$ -THC

Sample Name	Area Ratio	Actual Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
Standard 1	0.0222	1.00	1.083	108.32
Standard 2	0.1167	5.00	4.642	92.84
Standard 3	0.6983	30.00	28.105	93.68
Standard 4	1.2016	50.00	51.227	102.45
Standard 5	1.6424	70.00	74.743	106.78
Standard 6	1.9790	100.00	95.983	95.98
Negative	N/A	0.00	N/A	N/A
Medium	0.9193	40.00	37.872	94.68
Low	0.0685	3.00	2.821	94.03
High	1.9081	80.00	91.184	113.98

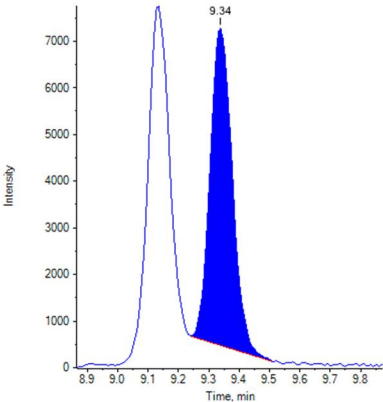
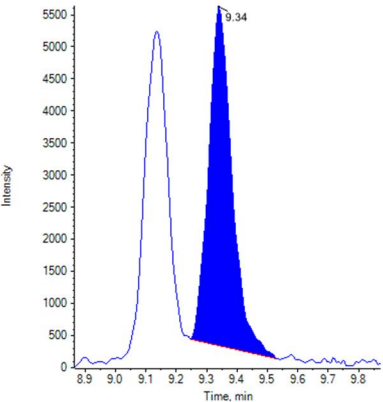
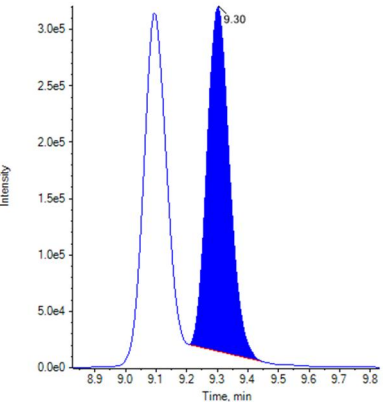
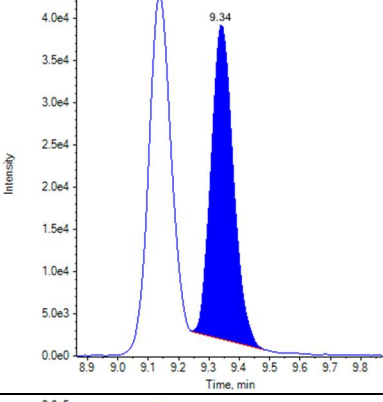
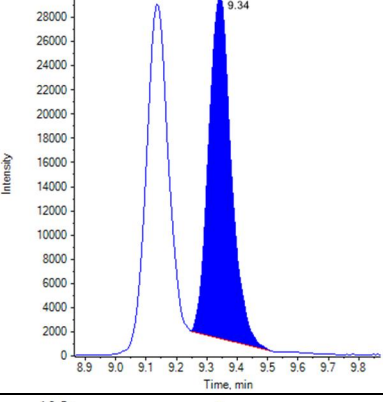
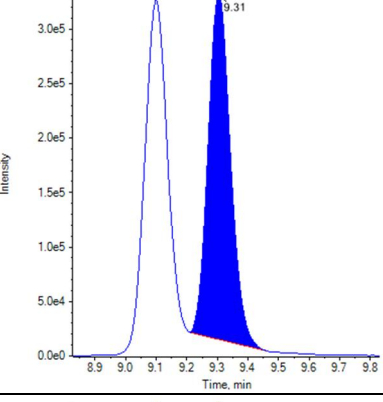
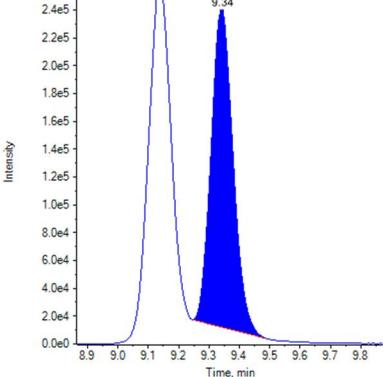
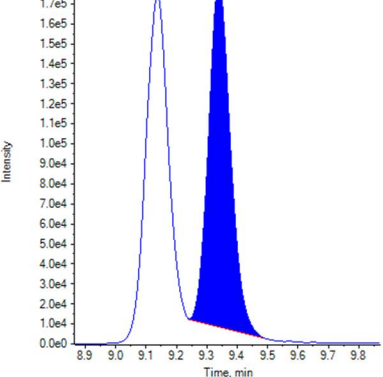
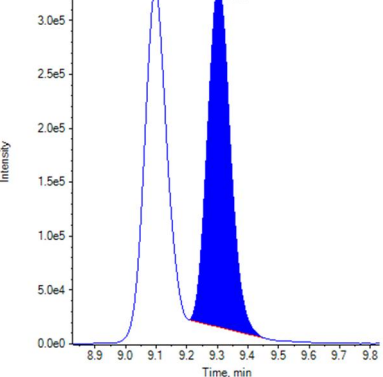
Identification Summary: $\Delta 8$ -THC

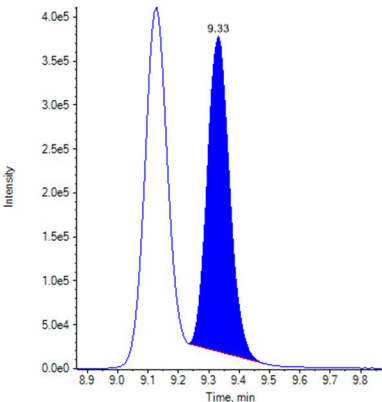
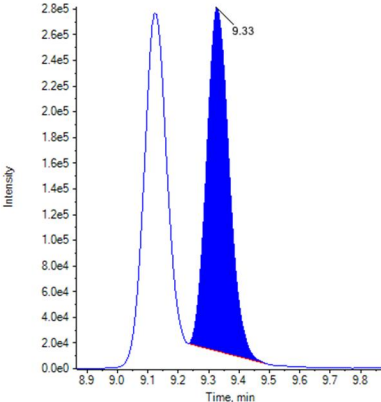
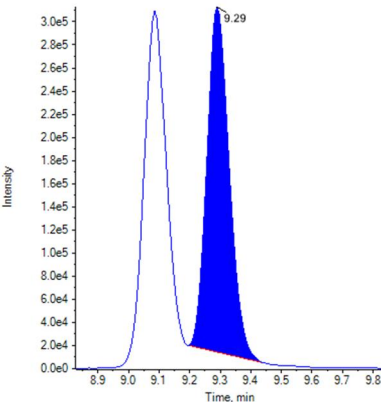
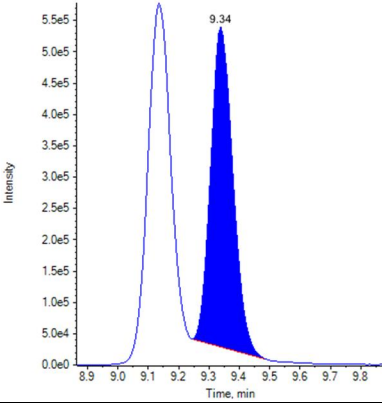
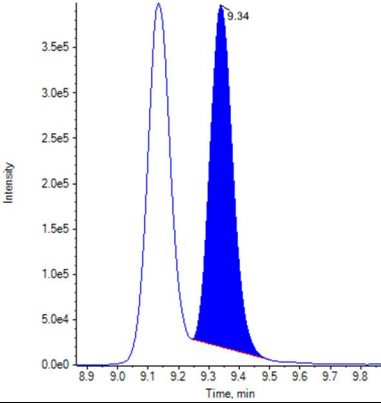
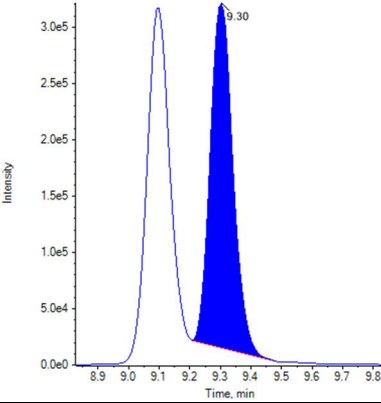
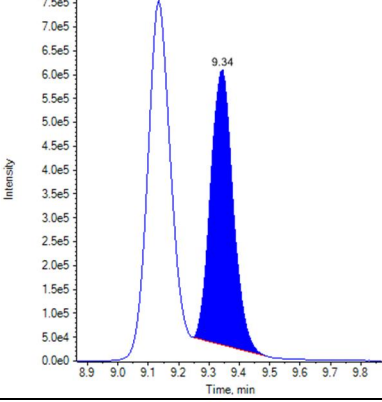
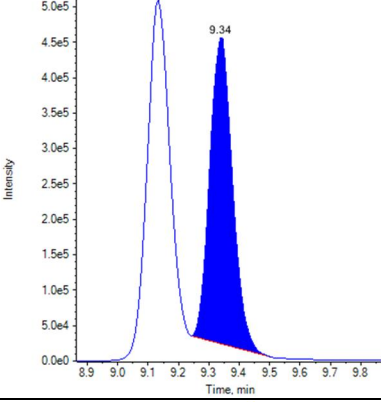
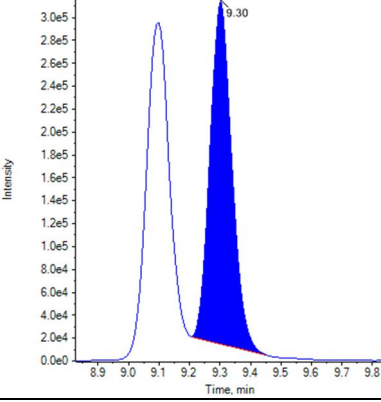
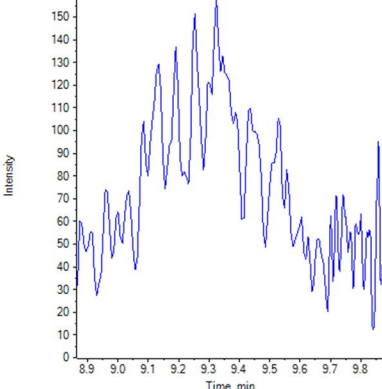
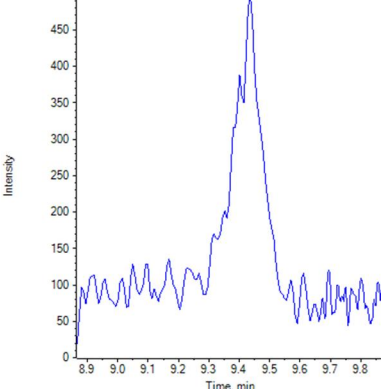
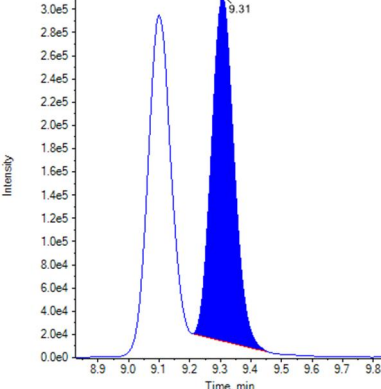
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 1	$\Delta 8$ -THC 1	1.000 (Pass)	0.814 (Pass)
	$\Delta 8$ -THC 2	1.000 (Pass)	
Standard 2	$\Delta 8$ -THC 1	1.000 (Pass)	0.775 (Pass)
	$\Delta 8$ -THC 2	1.000 (Pass)	
Standard 3	$\Delta 8$ -THC 1	1.000 (Pass)	0.755 (Pass)
	$\Delta 8$ -THC 2	1.000 (Pass)	
Standard 4	$\Delta 8$ -THC 1	1.000 (Pass)	0.756 (Pass)
	$\Delta 8$ -THC 2	1.000 (Pass)	
Standard 5	$\Delta 8$ -THC 1	1.000 (Pass)	0.751 (Pass)
	$\Delta 8$ -THC 2	1.000 (Pass)	
Standard 6	$\Delta 8$ -THC 1	1.000 (Pass)	0.761 (Pass)
	$\Delta 8$ -THC 2	1.000 (Pass)	
Negative	$\Delta 8$ -THC 1	N/A ()	N/A ()

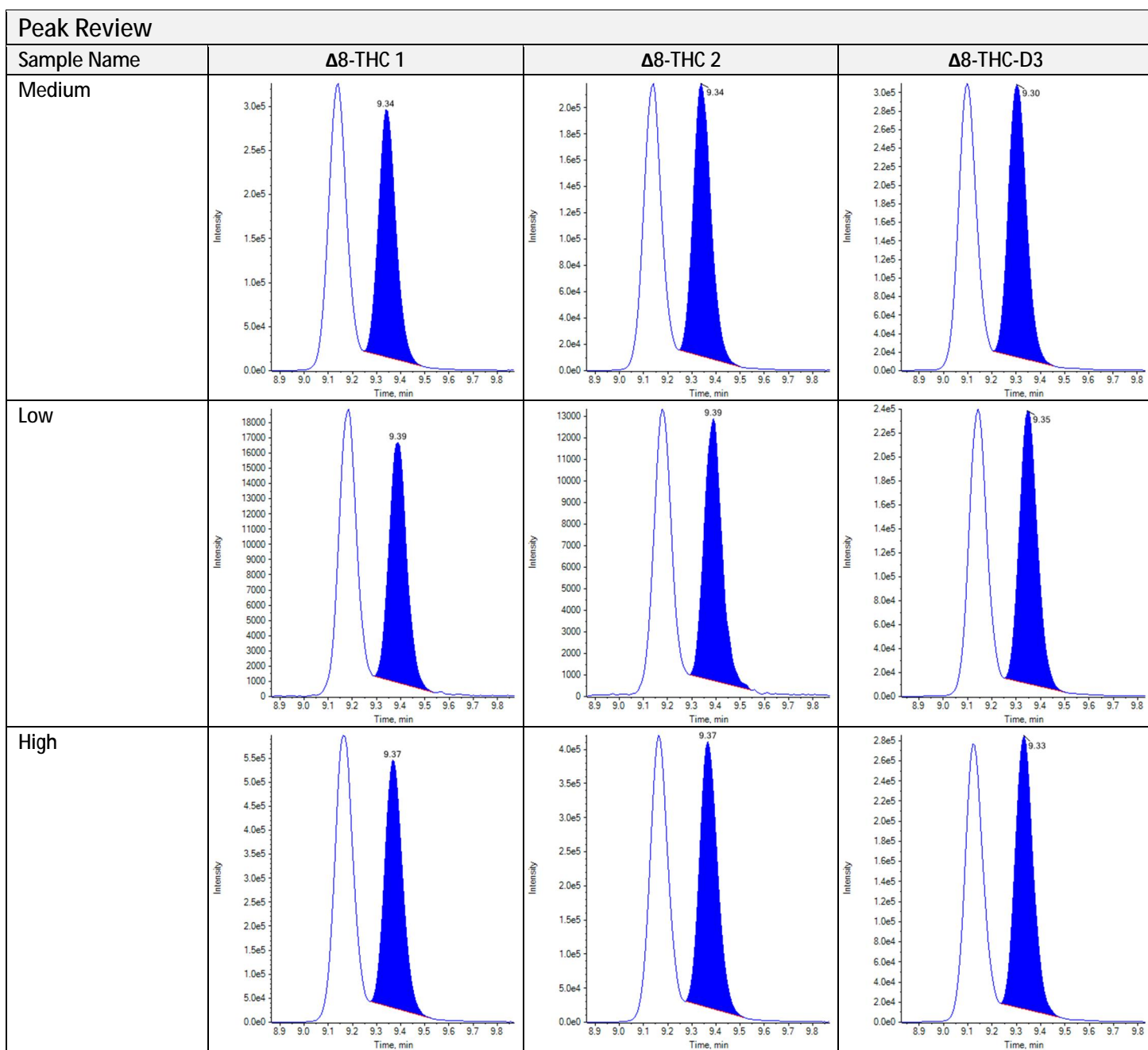
Identification Summary: $\Delta 8$ -THC

Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
	$\Delta 8$ -THC 2	N/A ()	
Medium	$\Delta 8$ -THC 1 $\Delta 8$ -THC 2	1.000 (Pass) 1.000 (Pass)	0.753 (Pass)
Low	$\Delta 8$ -THC 1 $\Delta 8$ -THC 2	1.000 (Pass) 1.000 (Pass)	0.773 (Pass)
High	$\Delta 8$ -THC 1 $\Delta 8$ -THC 2	1.000 (Pass) 1.000 (Pass)	0.755 (Pass)

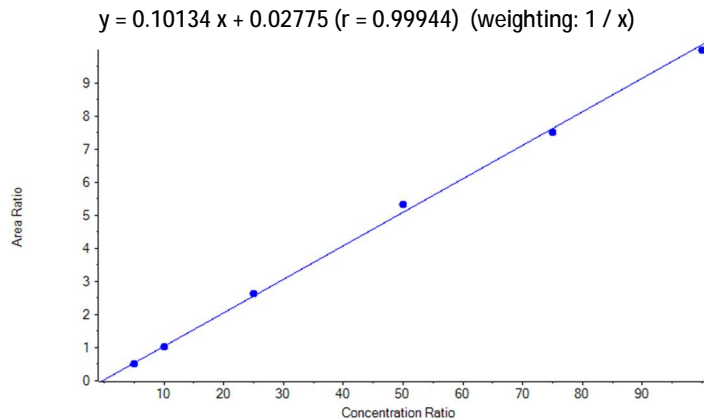
Peak Review

Sample Name	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2	$\Delta 8$ -THC-D3
Standard 1			
Standard 2			
Standard 3			

Peak Review			
Sample Name	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2	$\Delta 8$ -THC-D3
Standard 4			
Standard 5			
Standard 6			
Negative			



Calibration Summary: THC-COOH



Analyte Transition Mass	
Internal Standard	THC-COOH-D3
I.S. Transition Mass	346.0 / 194.0
THC-COOH 1	343.0 / 299.1
THC-COOH 2	343.0 / 191.0
Relative Retention time: Expected (Acceptance Range)	
THC-COOH 1	1.007 (0.982-1.032)
THC-COOH 2	1.007 (0.982-1.032)
Ion Ratio: Expected (Acceptance Range)	
THC-COOH 2	0.183 (0.146-0.220)
THC-COOH comment	

Quantitative Summary: THC-COOH

Sample Name	Area Ratio	Actual Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
Standard 1	0.5112	5.00	4.770	95.41
Standard 2	1.0409	10.00	9.997	99.97
Standard 3	2.6464	25.00	25.840	103.36
Standard 4	5.3266	50.00	52.288	104.58
Standard 5	7.5004	75.00	73.739	98.32
Standard 6	9.9961	100.00	98.366	98.37
Negative	N/A	0.00	N/A	N/A
Medium	4.1775	40.00	40.949	102.37
Low	0.8039	8.00	7.659	95.74
High	7.8363	80.00	77.053	96.32

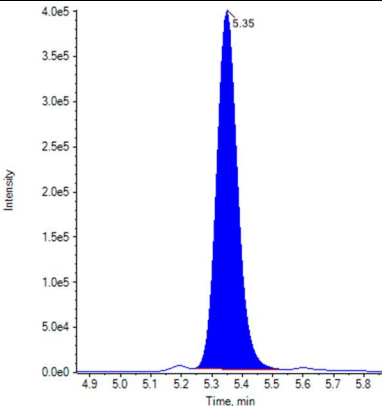
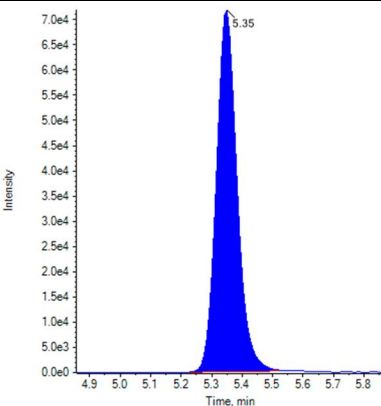
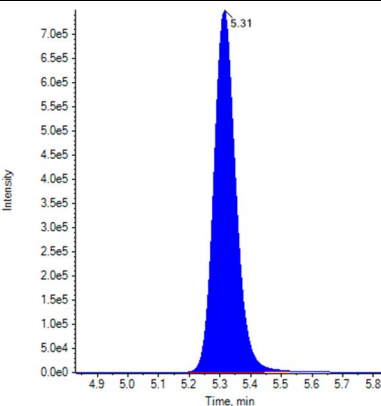
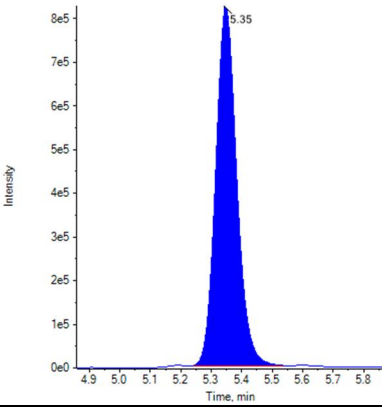
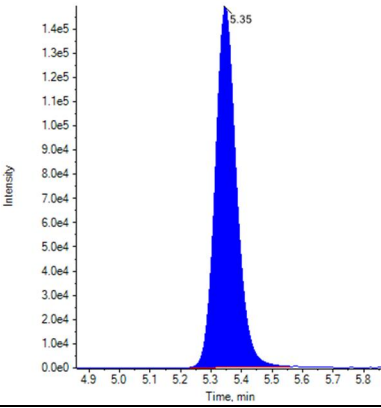
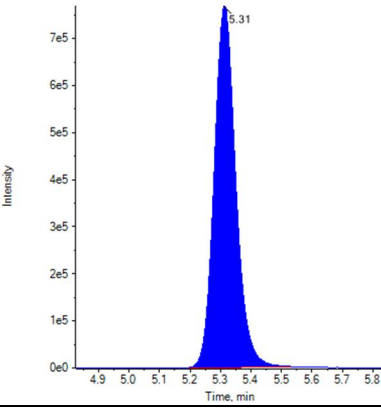
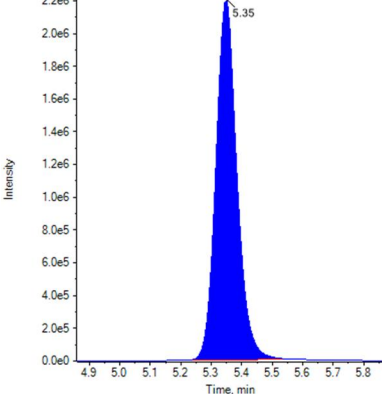
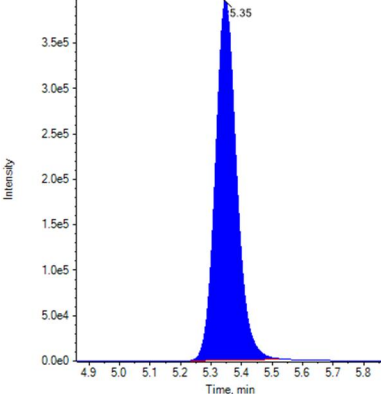
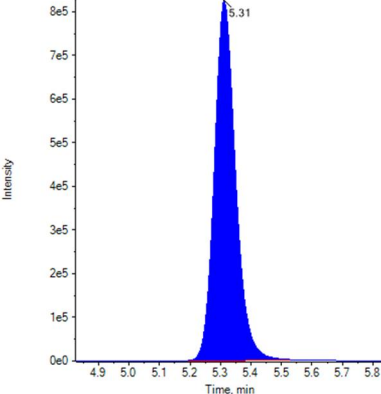
Identification Summary: THC-COOH

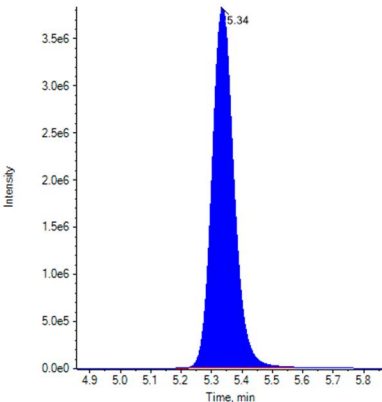
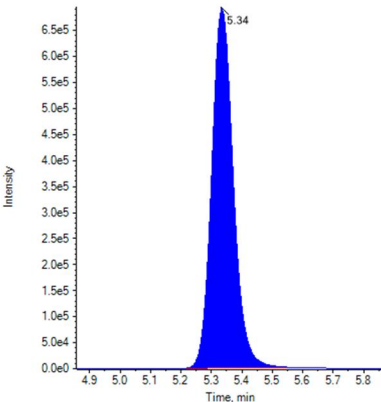
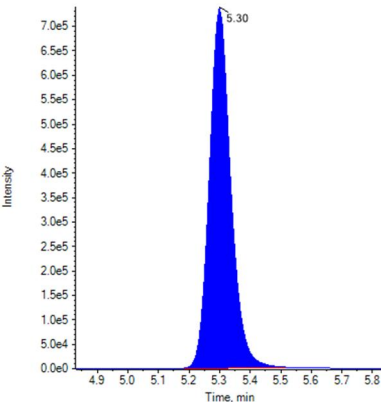
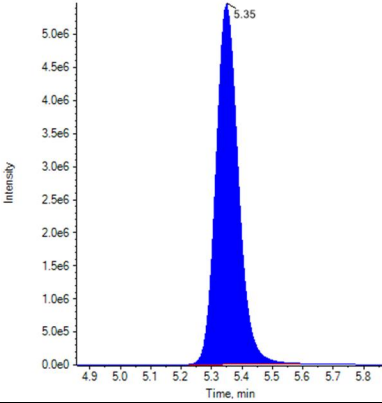
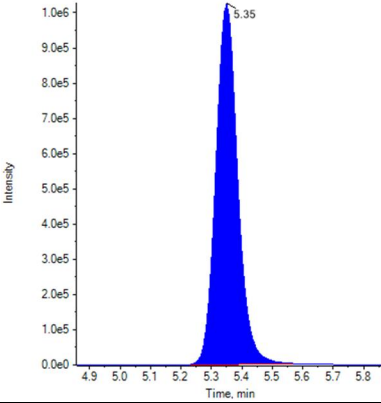
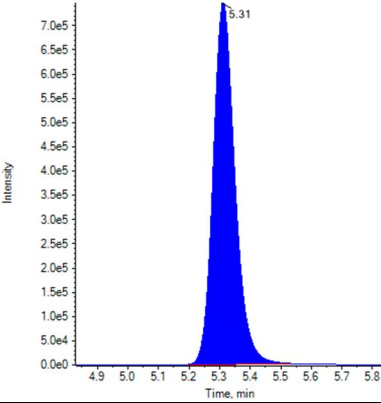
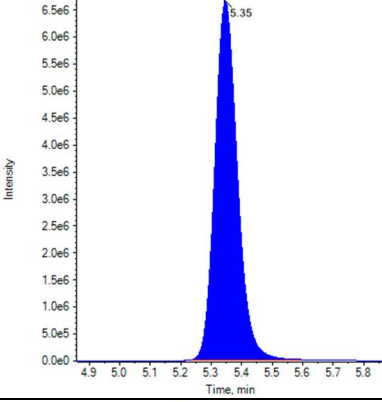
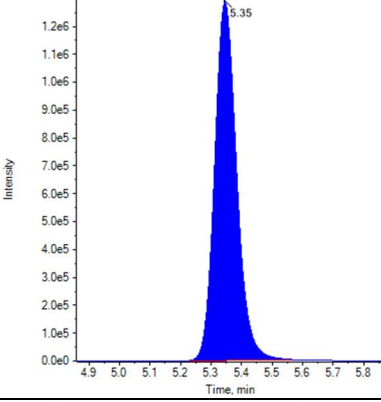
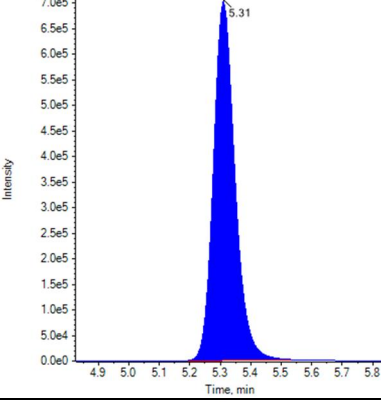
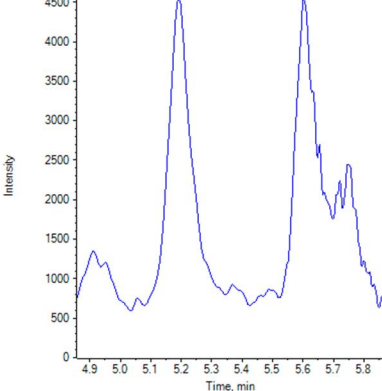
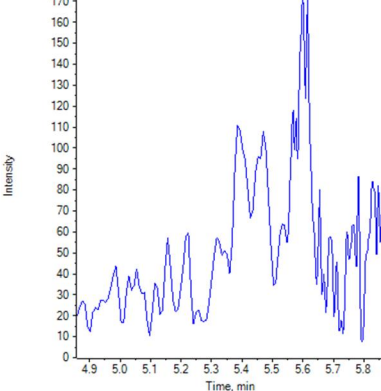
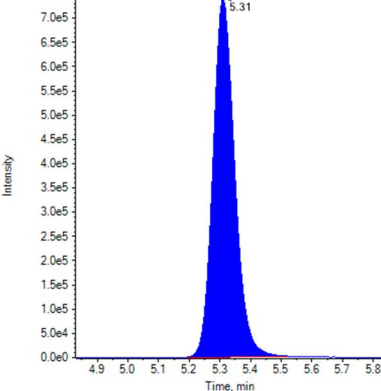
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 1	THC-COOH 1	1.010 (Pass)	0.181 (Pass)
	THC-COOH 2	1.010 (Pass)	
Standard 2	THC-COOH 1	1.010 (Pass)	0.181 (Pass)
	THC-COOH 2	1.010 (Pass)	
Standard 3	THC-COOH 1	1.010 (Pass)	0.181 (Pass)
	THC-COOH 2	1.010 (Pass)	
Standard 4	THC-COOH 1	1.010 (Pass)	0.180 (Pass)
	THC-COOH 2	1.010 (Pass)	
Standard 5	THC-COOH 1	1.010 (Pass)	0.184 (Pass)
	THC-COOH 2	1.010 (Pass)	
Standard 6	THC-COOH 1	1.010 (Pass)	0.189 (Pass)
	THC-COOH 2	1.010 (Pass)	

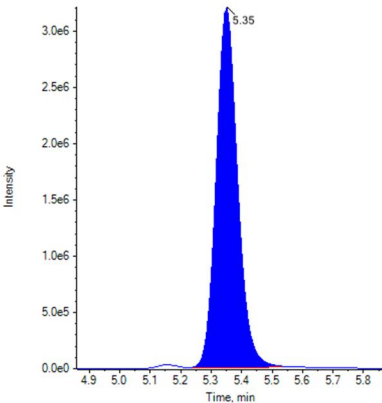
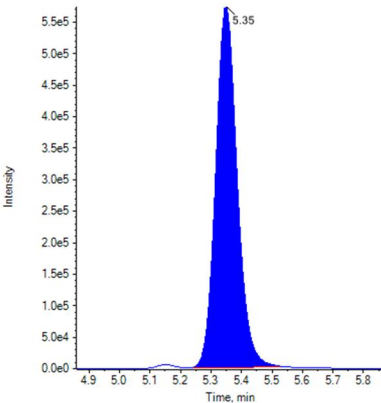
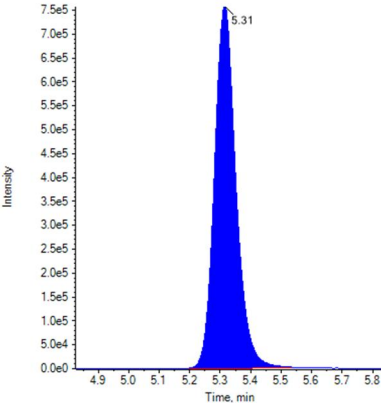
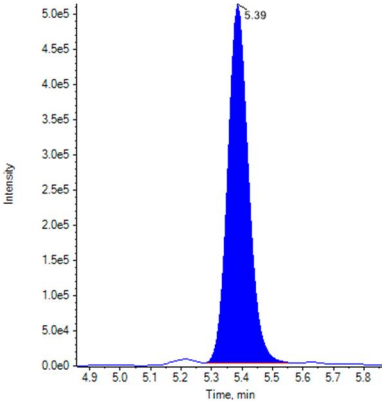
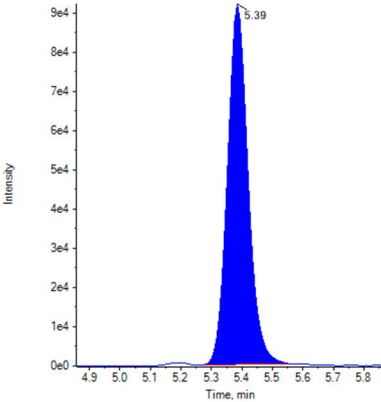
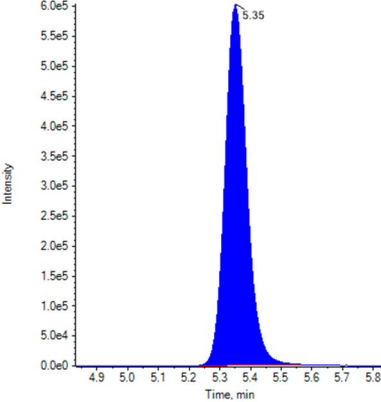
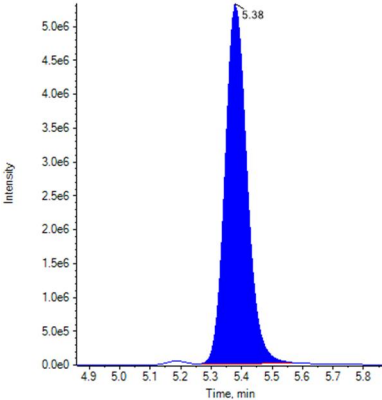
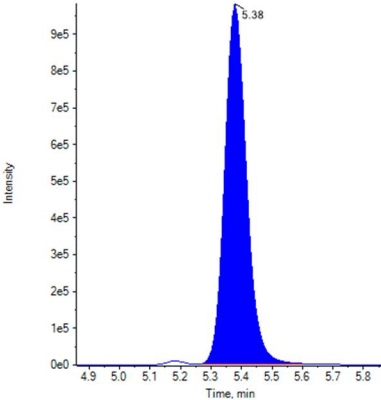
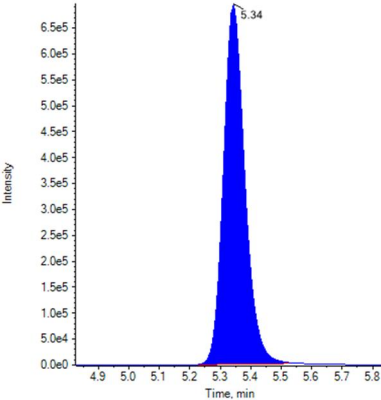
Identification Summary: THC-COOH

Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Negative	THC-COOH 1	N/A ()	N/A ()
	THC-COOH 2	N/A ()	
Medium	THC-COOH 1	1.010 (Pass)	0.180 (Pass)
	THC-COOH 2	1.010 (Pass)	
Low	THC-COOH 1	1.010 (Pass)	0.181 (Pass)
	THC-COOH 2	1.010 (Pass)	
High	THC-COOH 1	1.010 (Pass)	0.183 (Pass)
	THC-COOH 2	1.010 (Pass)	

Peak Review

Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3
Standard 1			
Standard 2			
Standard 3			

Peak Review			
Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3
Standard 4			
Standard 5			
Standard 6			
Negative			

Peak Review			
Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3
Medium			
Low			
High			



Sample Summary

Sample Name	Standard 1
Acquisition Date/Time	2022-09-29T00:27:53
Acquisition Method	THC.dam
Batch Name	20220928JLG Wisconsin.dab
Results Table	20220928 JLG Wisconsin
Sample Type	Standard
File Name	20220928 JLG Wisconsin.wiff
Position	31
Sample Comment	

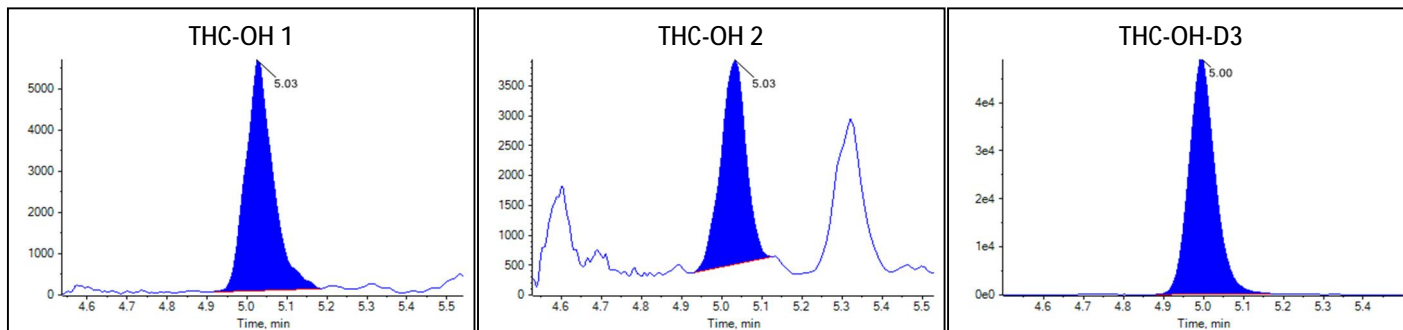
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.1193	1.041		
Δ^9 -THC	0.0296	1.032		
Δ^8 -THC	0.0222	1.083		
THC-COOH	0.5112	4.770		

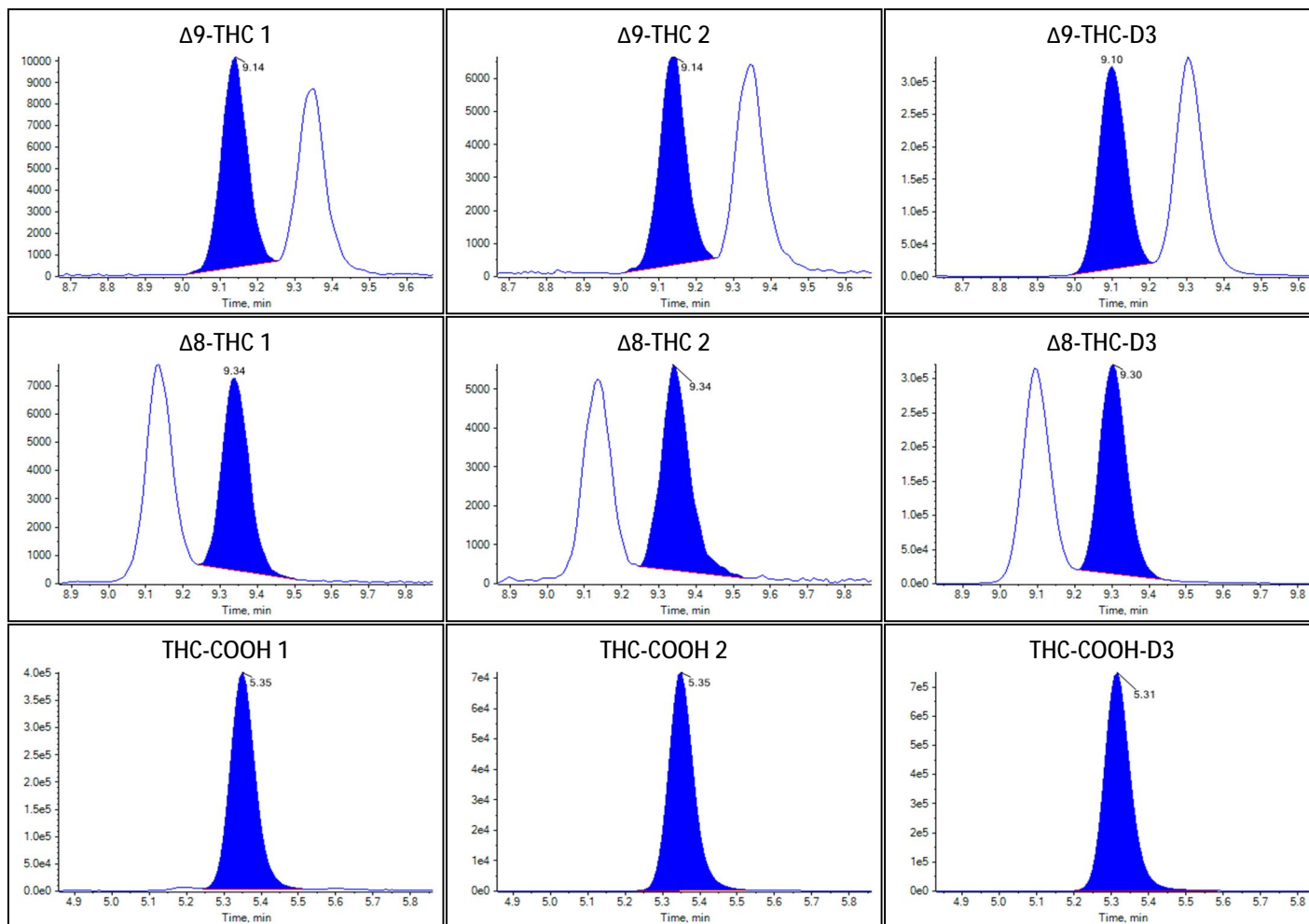
Identification Summary: Standard 1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.565(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.671(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.814(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.181(Pass)

Peak Review: Standard 1



Peak Review: Standard 1





Sample Summary

Sample Name	Standard 2
Acquisition Date/Time	2022-09-29T00:41:56
Acquisition Method	THC.dam
Batch Name	20220928JLG Wisconsin.dab
Results Table	20220928 JLG Wisconsin
Sample Type	Standard
File Name	20220928 JLG Wisconsin.wiff
Position	32
Sample Comment	

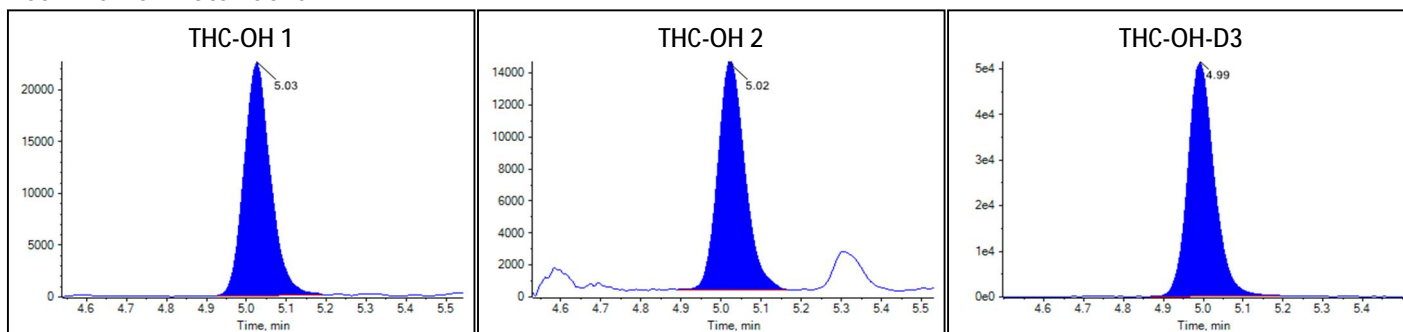
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.4384	3.763		
Δ^9 -THC	0.1520	4.878		
Δ^8 -THC	0.1167	4.642		
THC-COOH	1.0409	9.997		

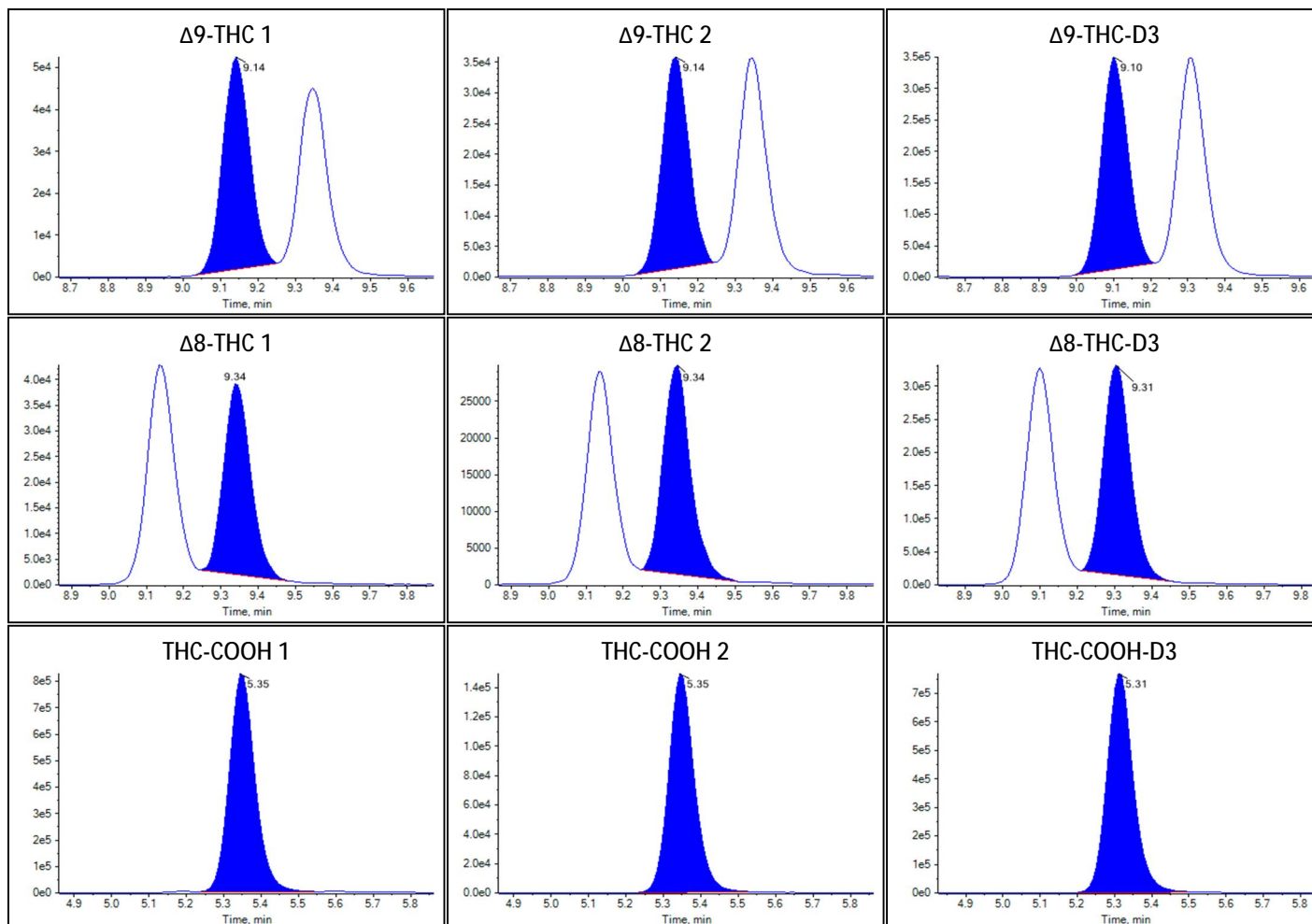
Identification Summary: Standard 2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.647(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.681(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.775(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.181(Pass)

Peak Review: Standard 2



Peak Review: Standard 2





Sample Summary

Sample Name	Standard 3
Acquisition Date/Time	2022-09-29T00:56:02
Acquisition Method	THC.dam
Batch Name	20220928JLG Wisconsin.dab
Results Table	20220928 JLG Wisconsin
Sample Type	Standard
File Name	20220928 JLG Wisconsin.wiff
Position	33
Sample Comment	

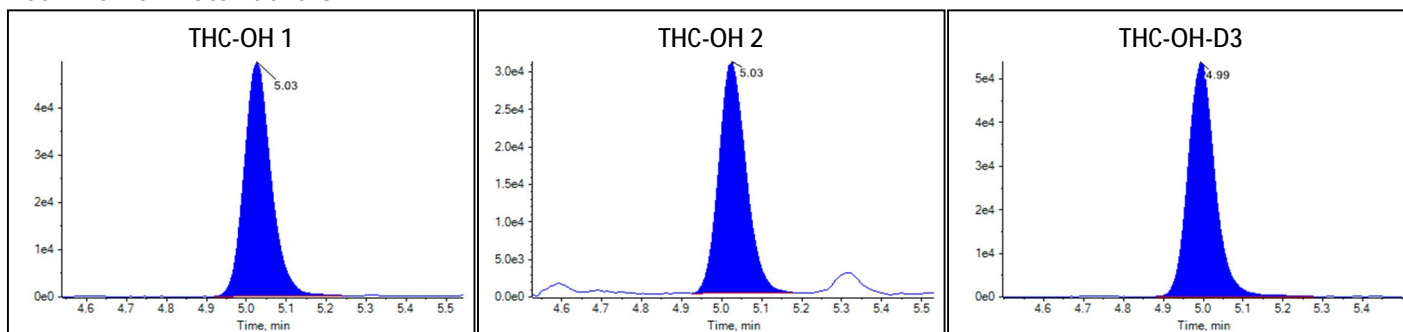
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.9185	7.857		
Δ^9 -THC	0.9016	29.026		
Δ^8 -THC	0.6983	28.105		
THC-COOH	2.6464	25.840		

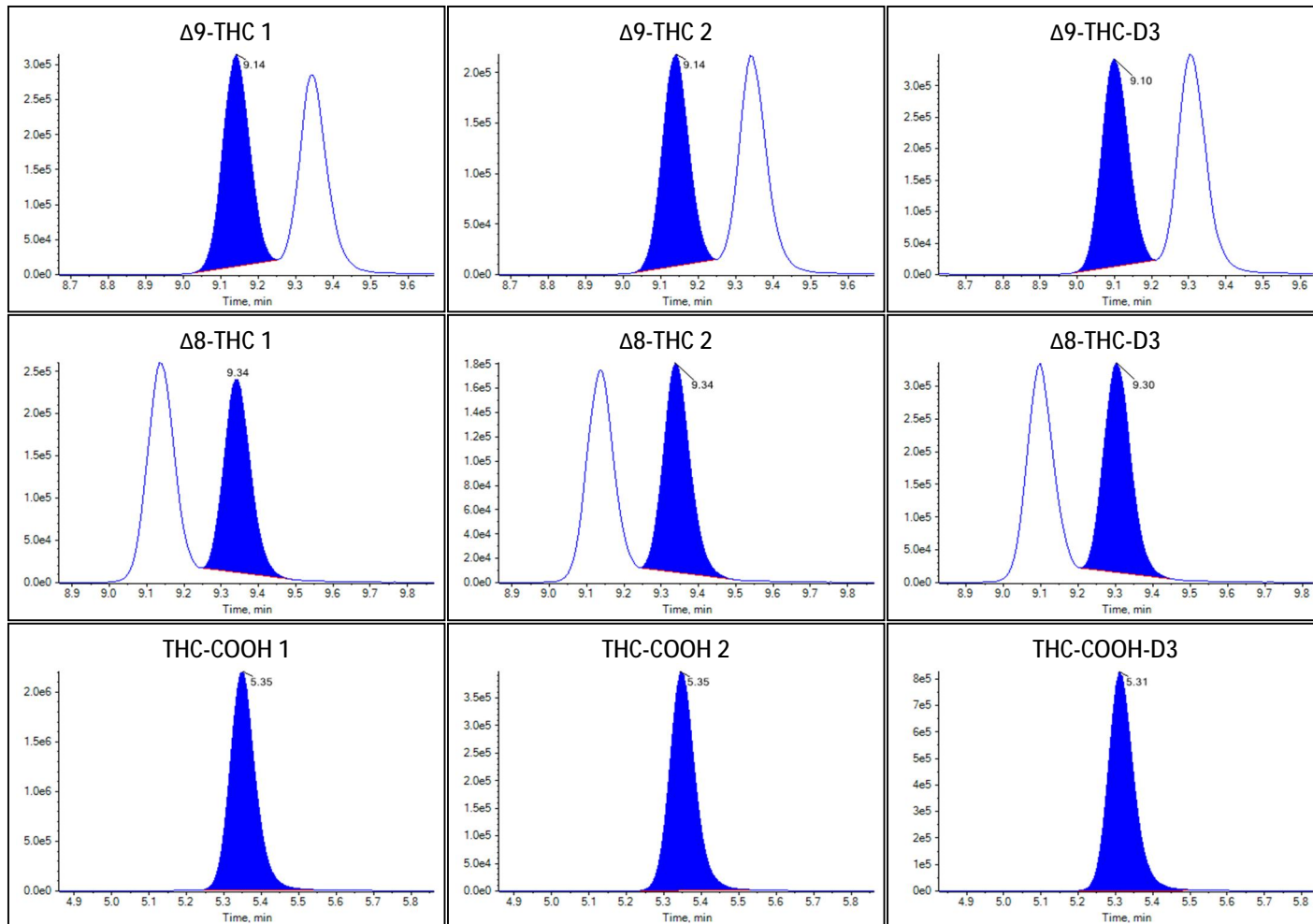
Identification Summary: Standard 3

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.630(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.690(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.755(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.181(Pass)

Peak Review: Standard 3



Peak Review: Standard 3





Sample Summary

Sample Name	Standard 4
Acquisition Date/Time	2022-09-29T01:10:04
Acquisition Method	THC.dam
Batch Name	20220928JLG Wisconsin.dab
Results Table	20220928 JLG Wisconsin
Sample Type	Standard
File Name	20220928 JLG Wisconsin.wiff
Position	34
Sample Comment	

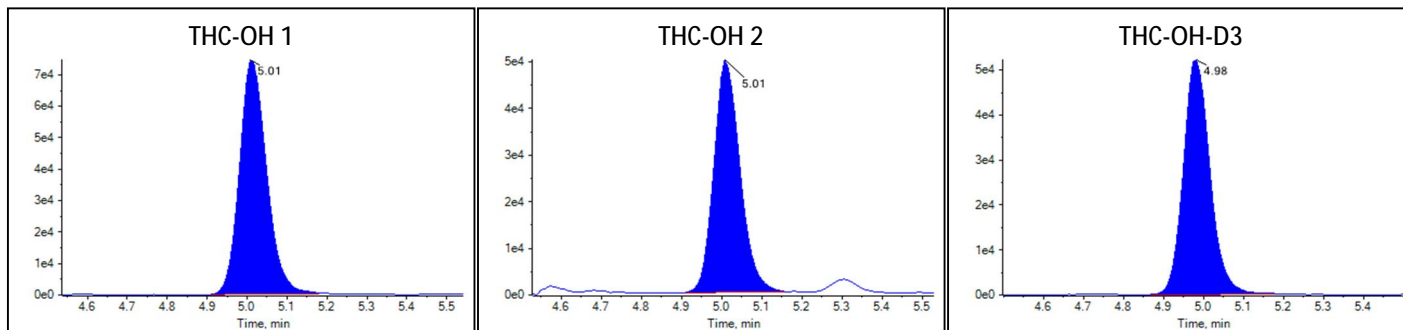
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.4407	12.309		
Δ^9 -THC	1.5546	50.985		
Δ^8 -THC	1.2016	51.227		
THC-COOH	5.3266	52.288		

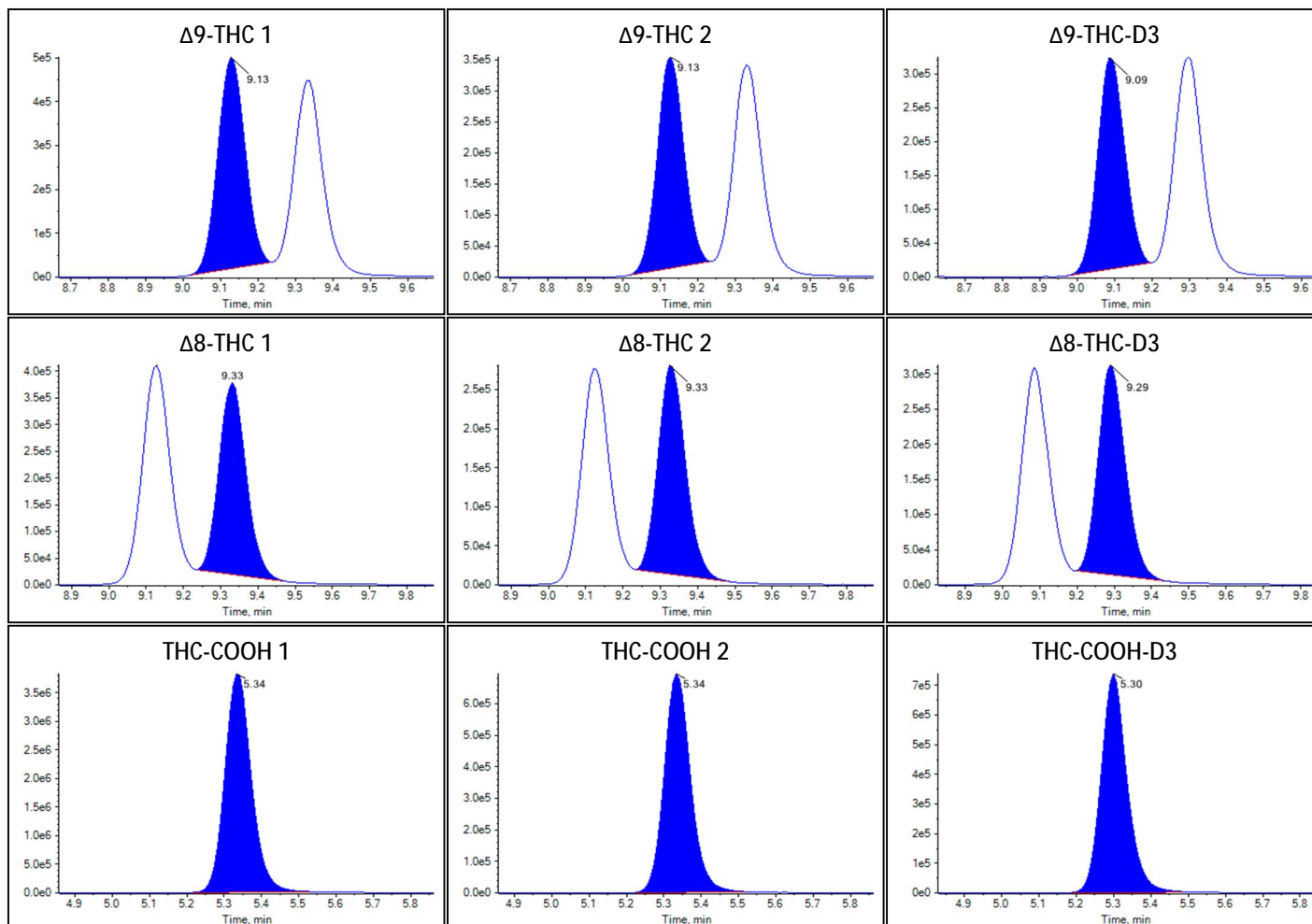
Identification Summary: Standard 4

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.644(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.692(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.756(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.180(Pass)

Peak Review: Standard 4



Peak Review: Standard 4





Sample Summary

Sample Name	Standard 5
Acquisition Date/Time	2022-09-29T01:24:09
Acquisition Method	THC.dam
Batch Name	20220928JLG Wisconsin.dab
Results Table	20220928 JLG Wisconsin
Sample Type	Standard
File Name	20220928 JLG Wisconsin.wiff
Position	35
Sample Comment	

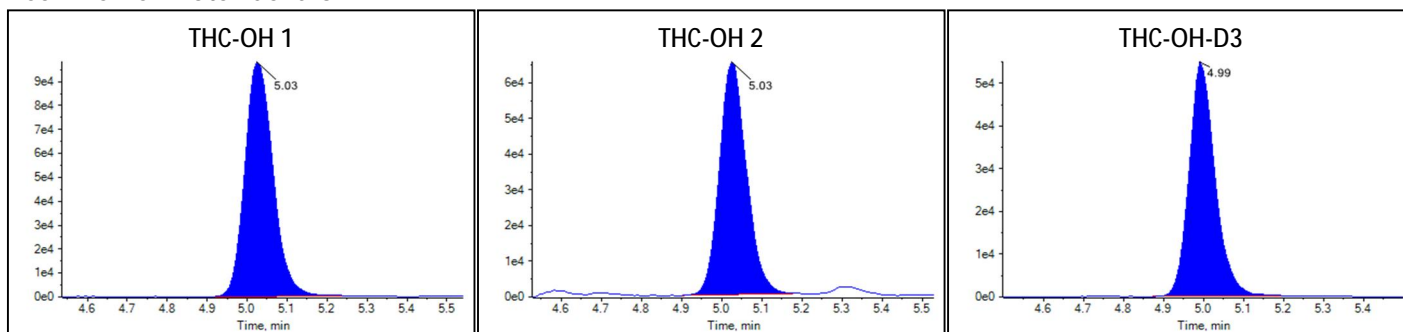
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.9545	16.692		
Δ^9 -THC	2.1279	71.071		
Δ^8 -THC	1.6424	74.743		
THC-COOH	7.5004	73.739		

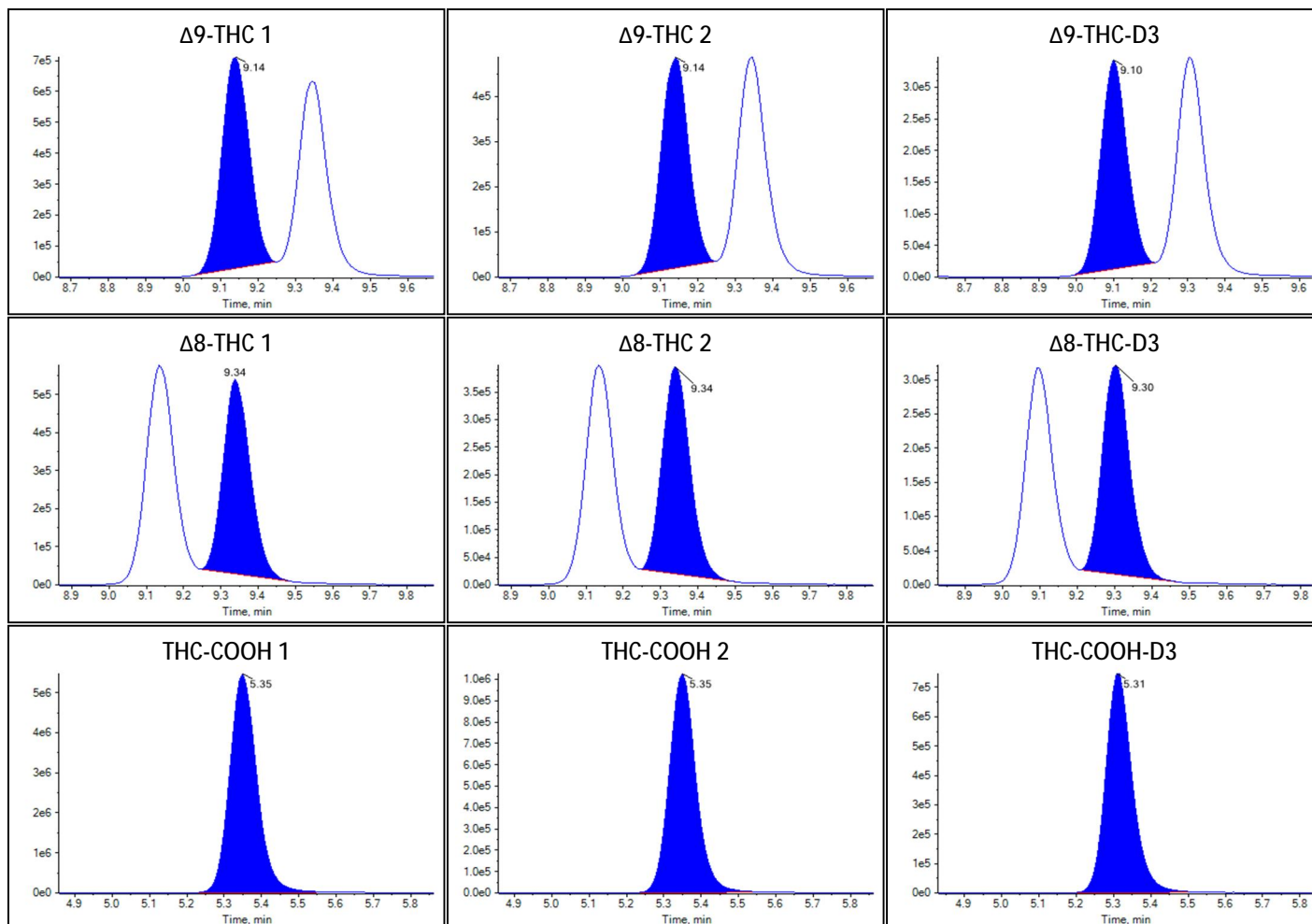
Identification Summary: Standard 5

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.636(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.689(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.751(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.184(Pass)

Peak Review: Standard 5



Peak Review: Standard 5





Sample Summary

Sample Name	Standard 6
Acquisition Date/Time	2022-09-29T01:38:12
Acquisition Method	THC.dam
Batch Name	20220928JLG Wisconsin.dab
Results Table	20220928 JLG Wisconsin
Sample Type	Standard
File Name	20220928 JLG Wisconsin.wiff
Position	36
Sample Comment	

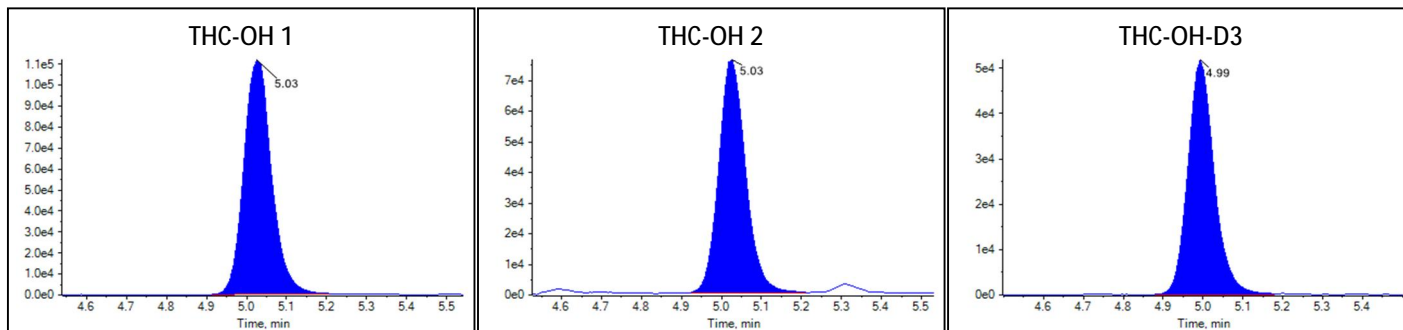
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.2649	19.338		
Δ^9 -THC	2.8871	99.002		
Δ^8 -THC	1.9790	95.983		
THC-COOH	9.9961	98.366		

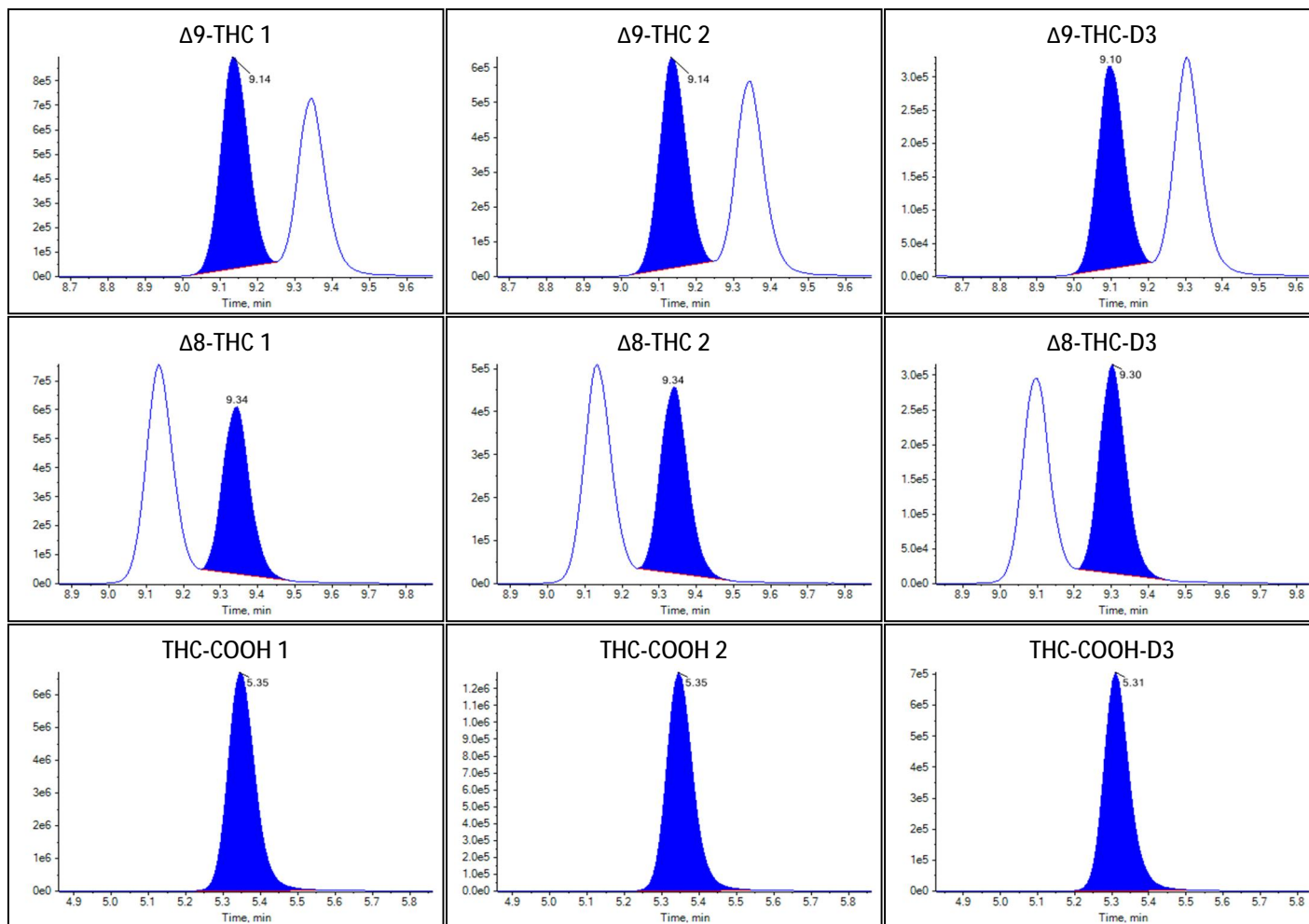
Identification Summary: Standard 6

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.663(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.688(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.761(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.189(Pass)

Peak Review: Standard 6



Peak Review: Standard 6





Sample Summary

Sample Name	Negative
Acquisition Date/Time	2022-09-29T01:52:14
Acquisition Method	THC.dam
Batch Name	20220928JLG Wisconsin.dab
Results Table	20220928 JLG Wisconsin
Sample Type	Quality Control
File Name	20220928 JLG Wisconsin.wiff
Position	37
Sample Comment	

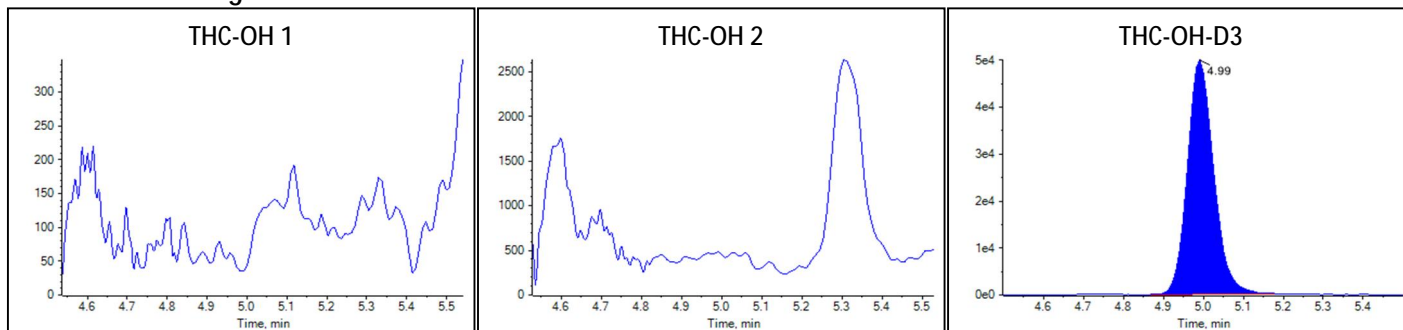
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	N/A	N/A		

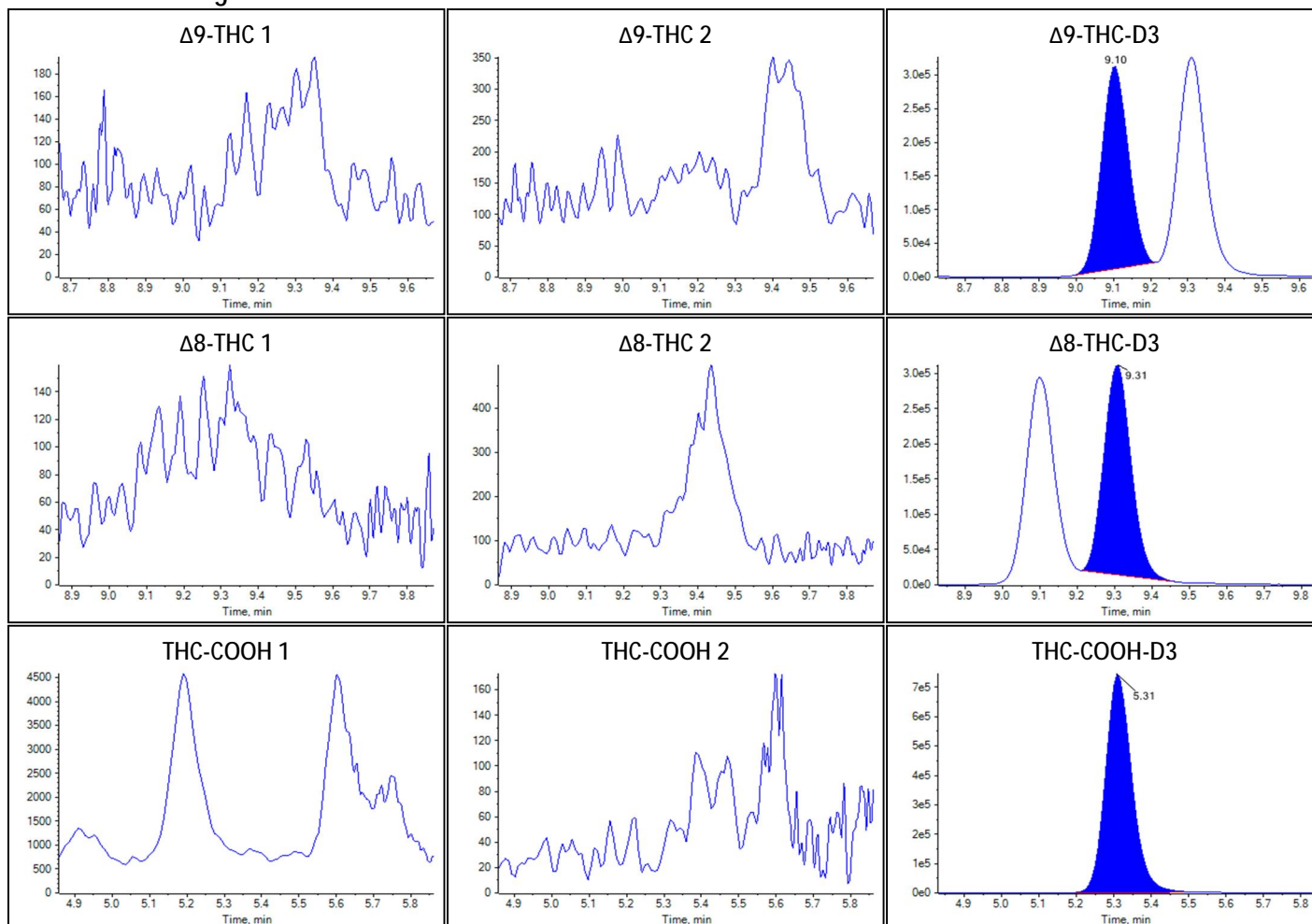
Identification Summary: Negative

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ^9 -THC 1	315.1 / 193.1	N/A	
Δ^9 -THC 2	315.1 / 123.0	N/A	N/A
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	N/A	
THC-COOH 2	343.0 / 191.0	N/A	N/A

Peak Review: Negative



Peak Review: Negative





Sample Summary

Sample Name	Medium
Acquisition Date/Time	2022-09-29T02:06:17
Acquisition Method	THC.dam
Batch Name	20220928JLG Wisconsin.dab
Results Table	20220928 JLG Wisconsin
Sample Type	Quality Control
File Name	20220928 JLG Wisconsin.wiff
Position	38
Sample Comment	

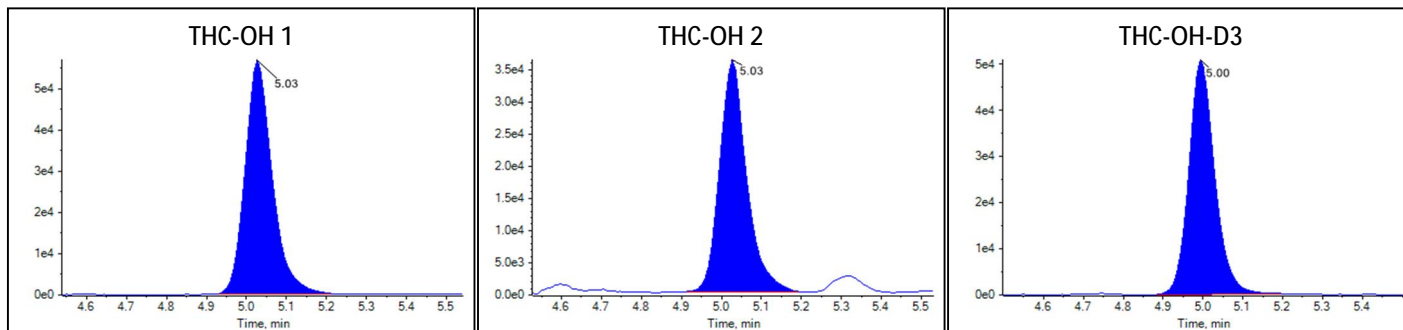
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.1633	9.944		
Δ^9 -THC	1.2139	39.413		
Δ^8 -THC	0.9193	37.872		
THC-COOH	4.1775	40.949		

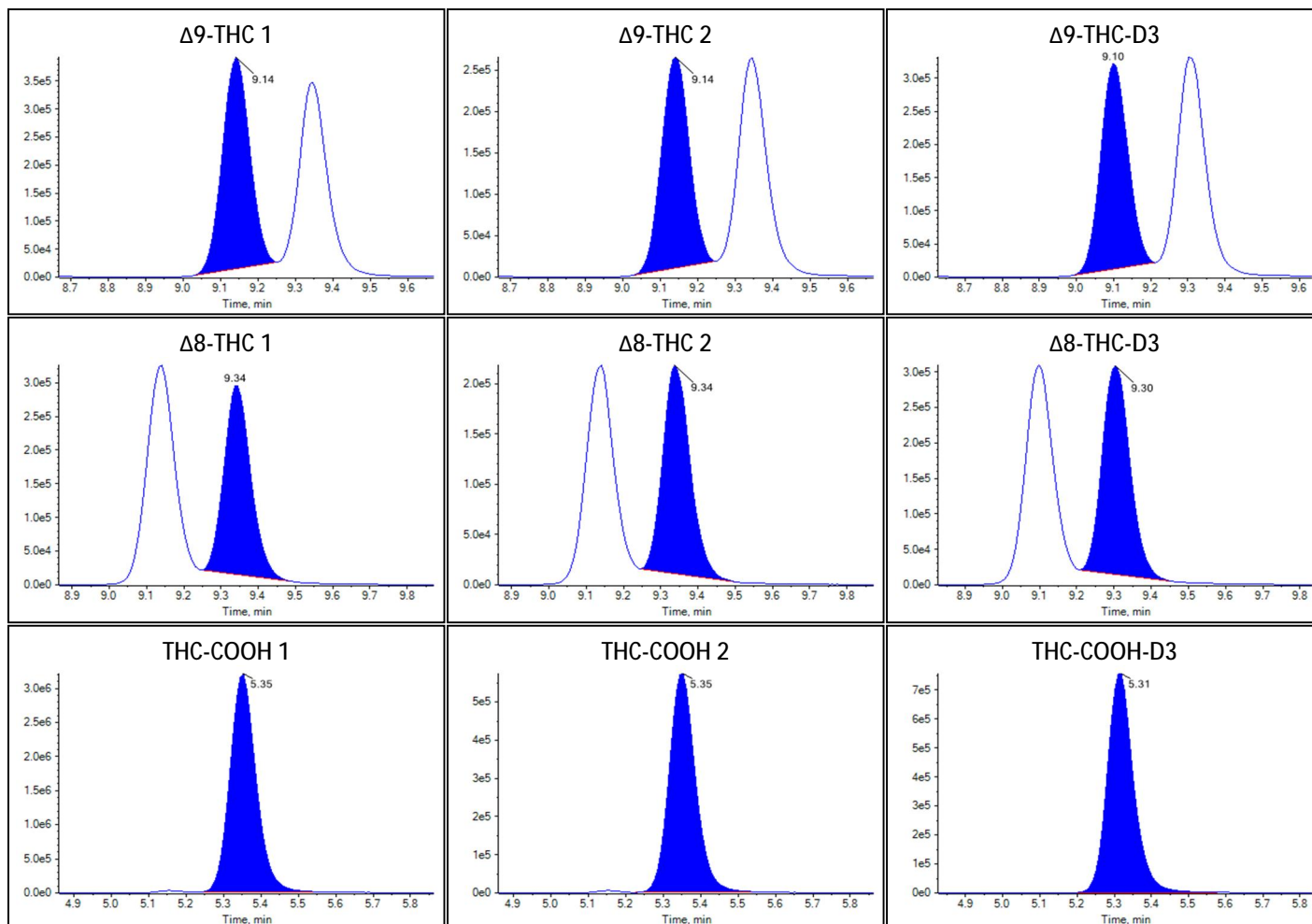
Identification Summary: Medium

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.634(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.684(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.753(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.180(Pass)

Peak Review: Medium



Peak Review: Medium





Sample Summary

Sample Name	5 µL injection
Acquisition Date/Time	2022-09-29T02:20:22
Acquisition Method	THC.dam
Batch Name	20220928JLG Wisconsin.dab
Results Table	20220928 JLG Wisconsin
Sample Type	Unknown
File Name	20220928 JLG Wisconsin.wiff
Position	31
Sample Comment	

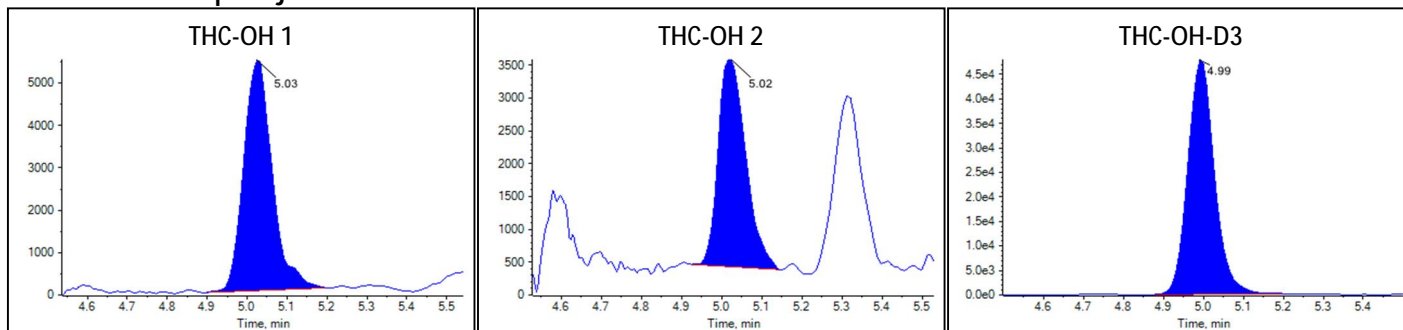
Quantitative Summary

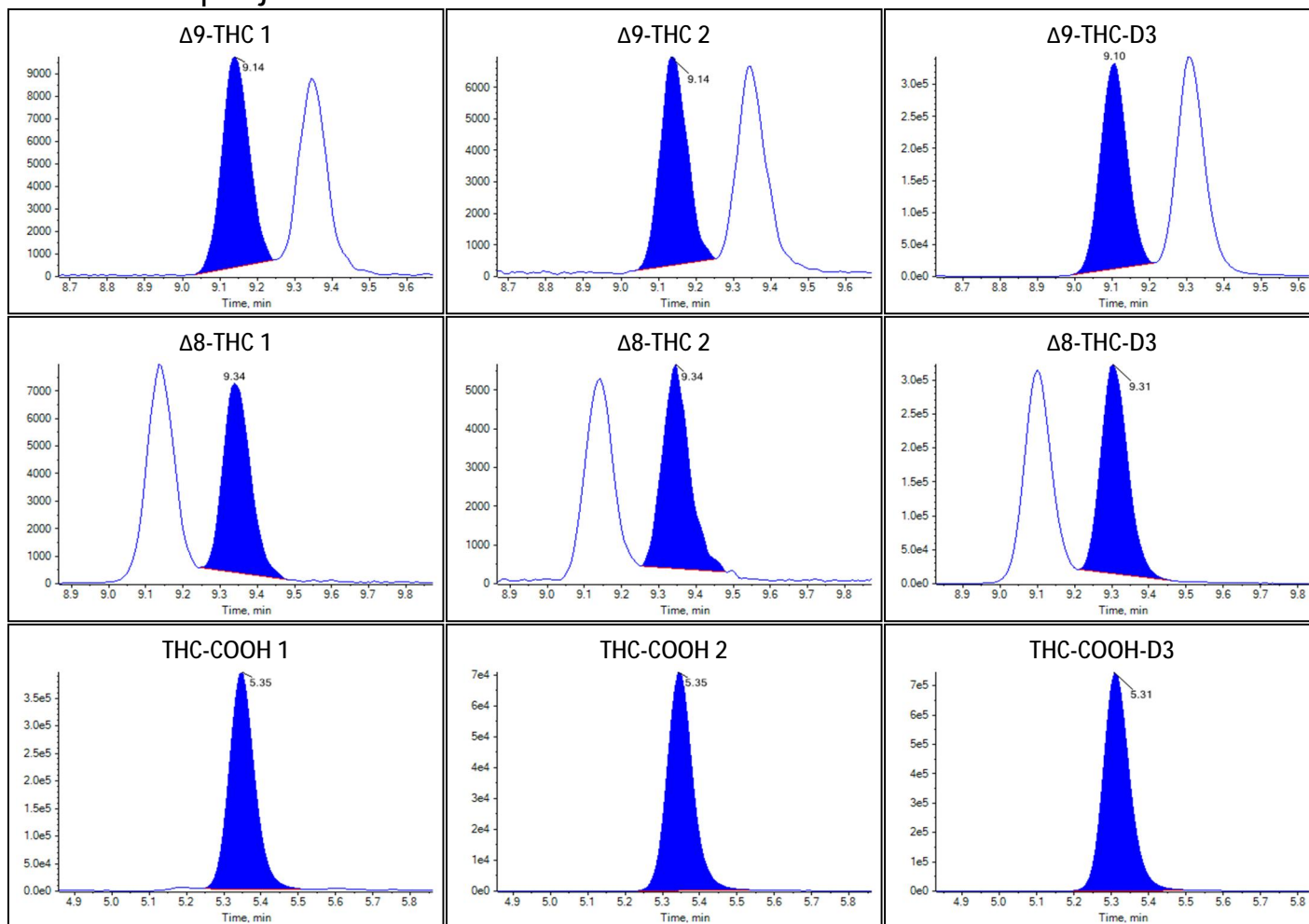
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.1221	1.065		
Δ9-THC	0.0296	1.033		
Δ8-THC	0.0229	1.108		
THC-COOH	0.5092	4.751		

Identification Summary: 5 µL injection

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.558(Pass)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.704(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.754(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.182(Pass)

Peak Review: 5 µL injection



Peak Review: 5 μ L injection



Sample Summary

Sample Name	W1
Acquisition Date/Time	2022-09-29T02:34:27
Acquisition Method	THC.dam
Batch Name	20220928JLG Wisconsin.dab
Results Table	20220928 JLG Wisconsin
Sample Type	Unknown
File Name	20220928 JLG Wisconsin.wiff
Position	41
Sample Comment	

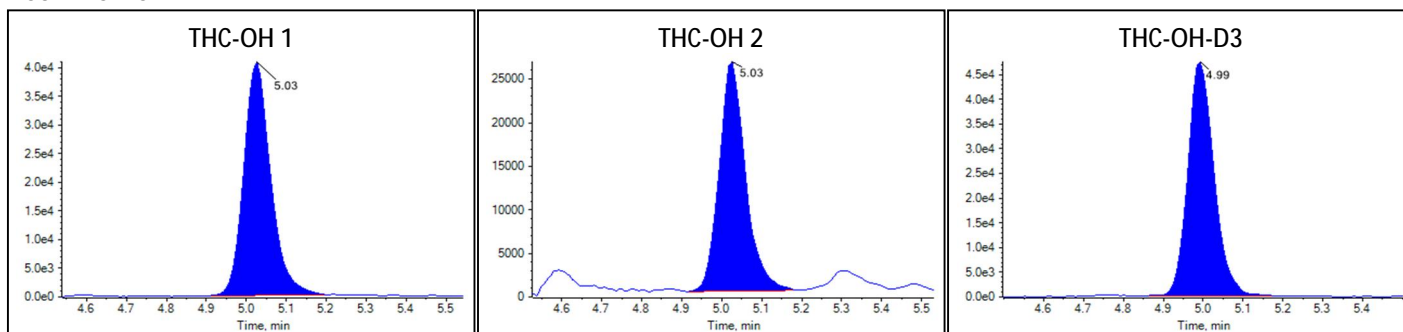
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.8799	7.527		
Δ^9 -THC	1.2717	41.356		
Δ^8 -THC	N/A	N/A		
THC-COOH	15.1347	149.072		

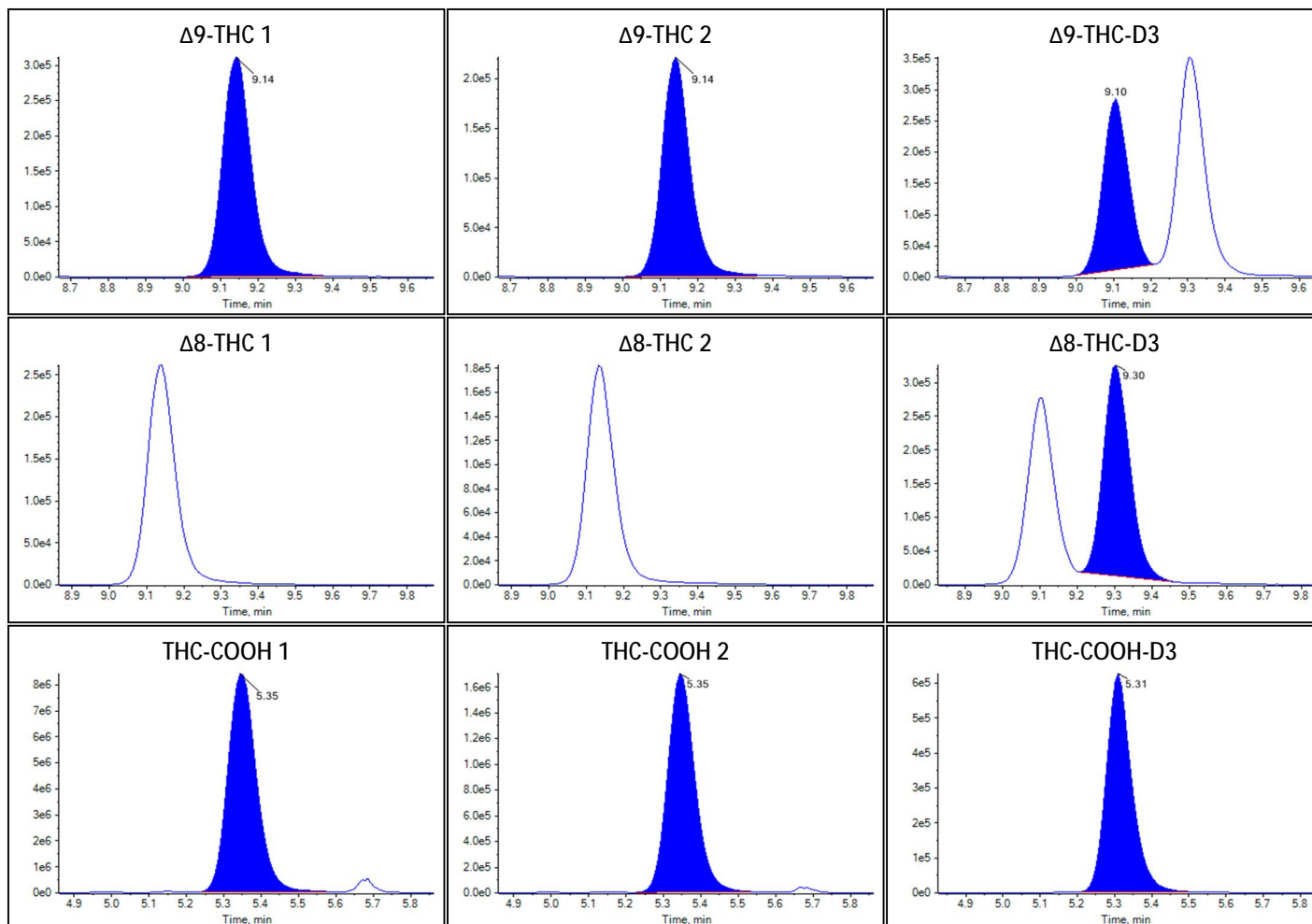
Identification Summary: W1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.632(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.695(Pass)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.192(Pass)

Peak Review: W1



Peak Review: W1





Sample Summary

Sample Name	W2
Acquisition Date/Time	2022-09-29T02:48:33
Acquisition Method	THC.dam
Batch Name	20220928JLG Wisconsin.dab
Results Table	20220928 JLG Wisconsin
Sample Type	Unknown
File Name	20220928 JLG Wisconsin.wiff
Position	42
Sample Comment	

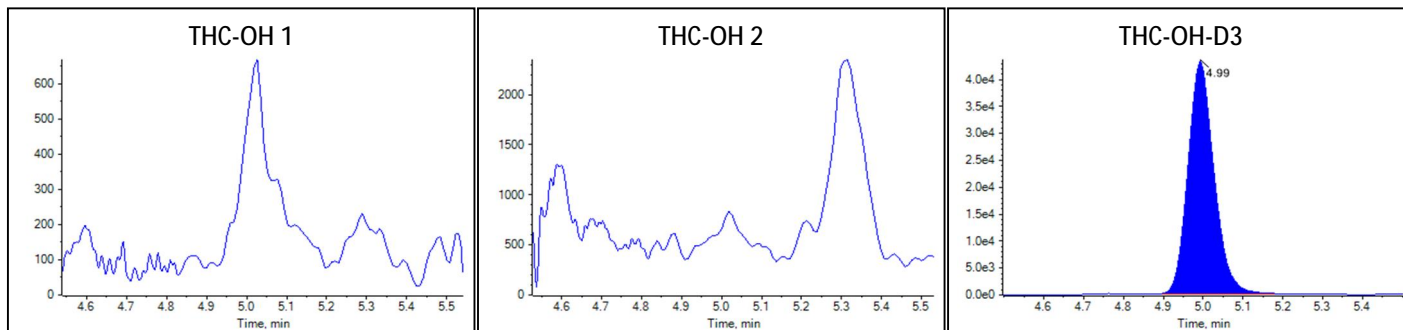
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	0.0077	0.349		
Δ^8 -THC	N/A	N/A		
THC-COOH	0.3761	3.437		

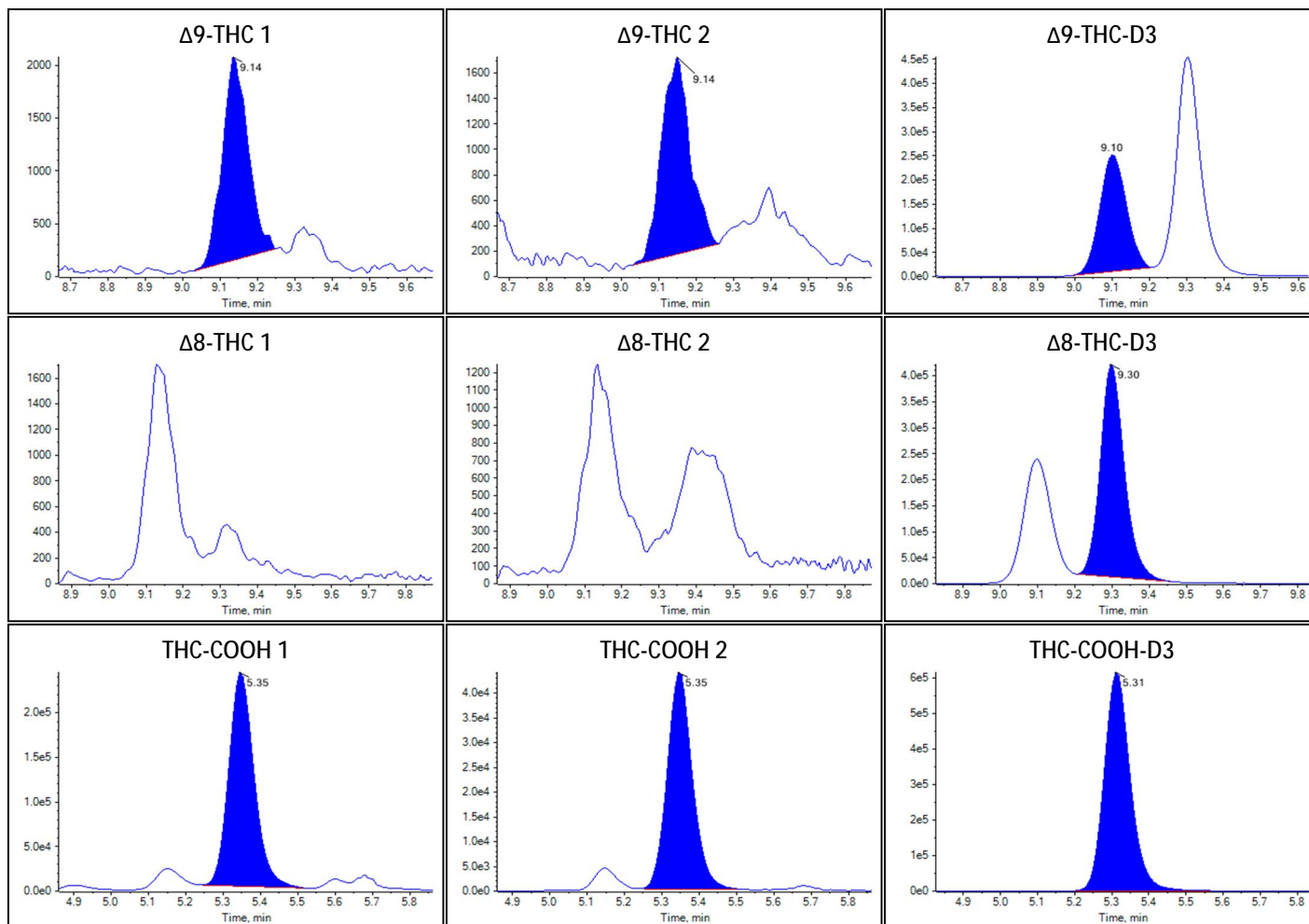
Identification Summary: W2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.895(Fail)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.182(Pass)

Peak Review: W2



Peak Review: W2





Sample Summary

Sample Name	W3
Acquisition Date/Time	2022-09-29T03:02:41
Acquisition Method	THC.dam
Batch Name	20220928JLG Wisconsin.dab
Results Table	20220928 JLG Wisconsin
Sample Type	Unknown
File Name	20220928 JLG Wisconsin.wiff
Position	43
Sample Comment	

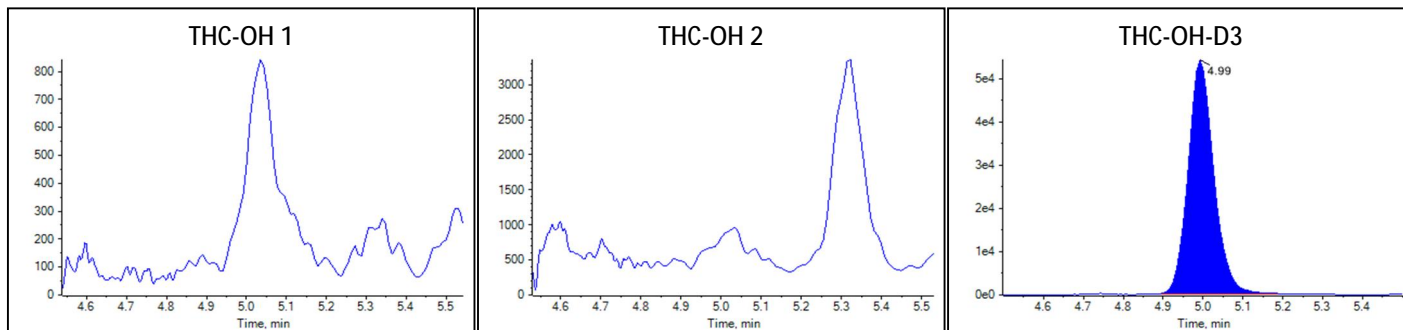
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	0.0062	0.300		
Δ^8 -THC	N/A	N/A		
THC-COOH	0.1567	1.273		

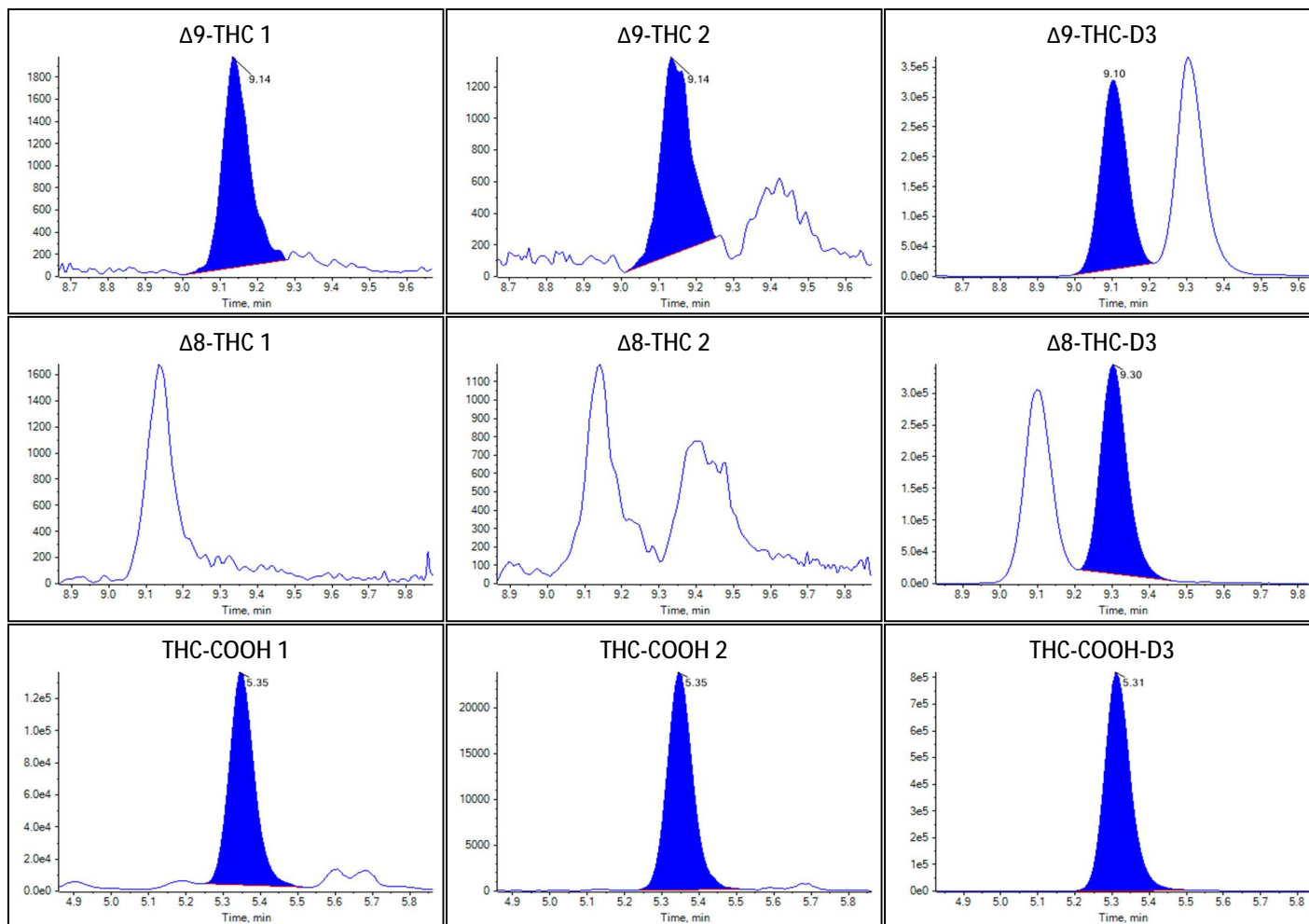
Identification Summary: W3

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.733(Pass)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.183(Pass)

Peak Review: W3



Peak Review: W3





Sample Summary

Sample Name	W4
Acquisition Date/Time	2022-09-29T03:16:47
Acquisition Method	THC.dam
Batch Name	20220928JLG Wisconsin.dab
Results Table	20220928 JLG Wisconsin
Sample Type	Unknown
File Name	20220928 JLG Wisconsin.wiff
Position	44
Sample Comment	

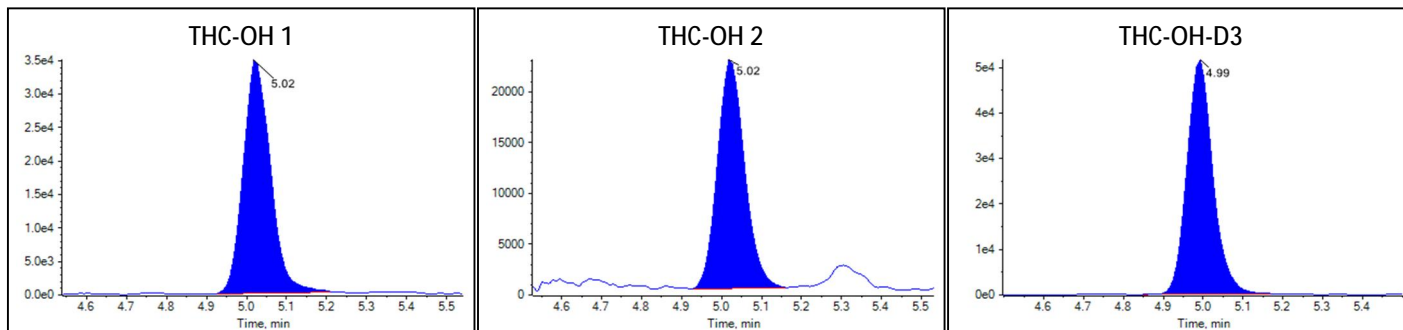
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.7105	6.083		
Δ 9-THC	0.2588	8.252		
Δ 8-THC	0.0105	0.644		
THC-COOH	12.0660	118.791		

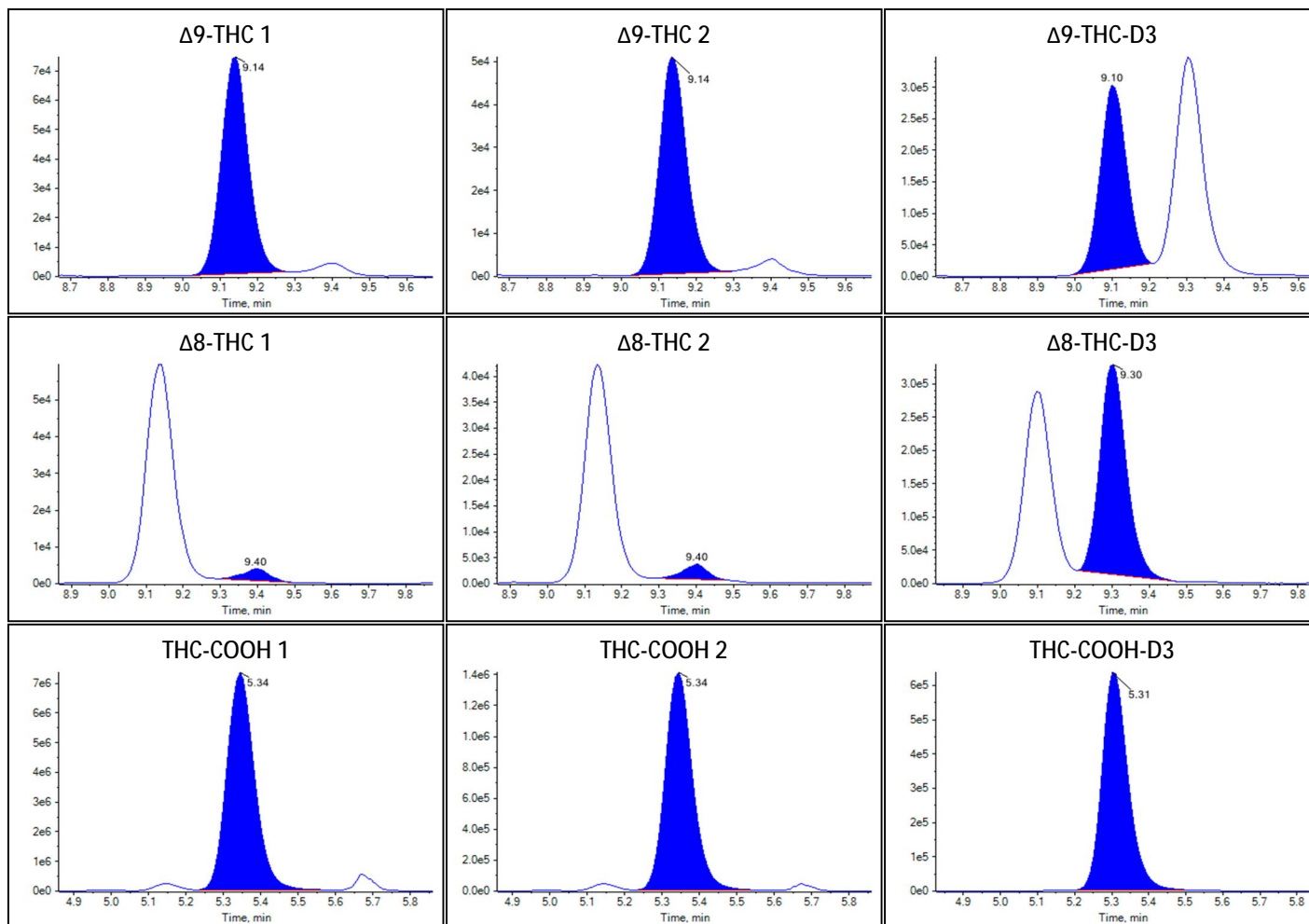
Identification Summary: W4

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.642(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.691(Pass)
Δ 8-THC 1	315.1 / 193.1	1.010(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.010(Pass)	0.834(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.189(Pass)

Peak Review: W4



Peak Review: W4





Sample Summary

Sample Name	W5
Acquisition Date/Time	2022-09-29T03:30:52
Acquisition Method	THC.dam
Batch Name	20220928JLG Wisconsin.dab
Results Table	20220928 JLG Wisconsin
Sample Type	Unknown
File Name	20220928 JLG Wisconsin.wiff
Position	45
Sample Comment	

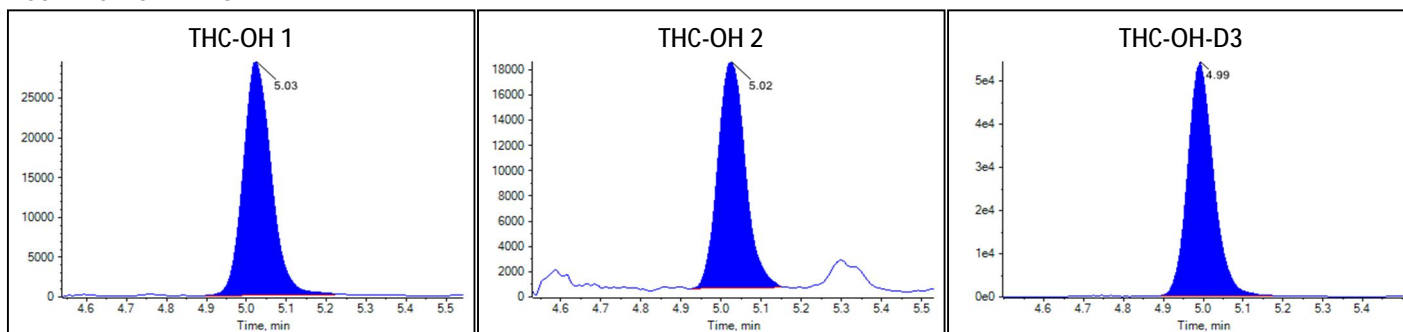
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.5898	5.053		
Δ^9 -THC	0.2743	8.745		
Δ^8 -THC	N/A	N/A		
THC-COOH	18.8857	186.086		

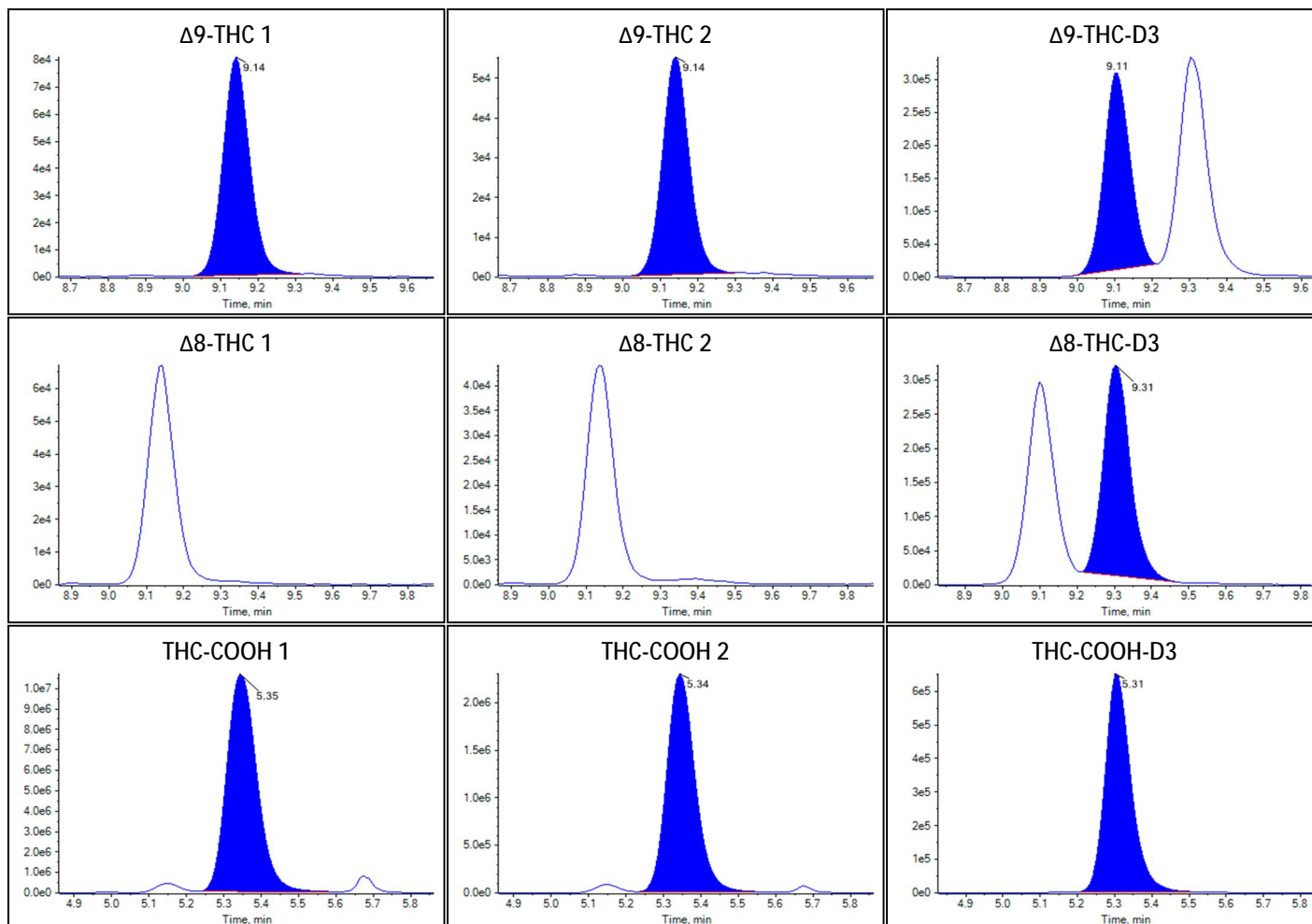
Identification Summary: W5

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.596(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.687(Pass)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.201(Pass)

Peak Review: W5



Peak Review: W5





Sample Summary

Sample Name	W6
Acquisition Date/Time	2022-09-29T03:44:58
Acquisition Method	THC.dam
Batch Name	20220928JLG Wisconsin.dab
Results Table	20220928 JLG Wisconsin
Sample Type	Unknown
File Name	20220928 JLG Wisconsin.wiff
Position	46
Sample Comment	

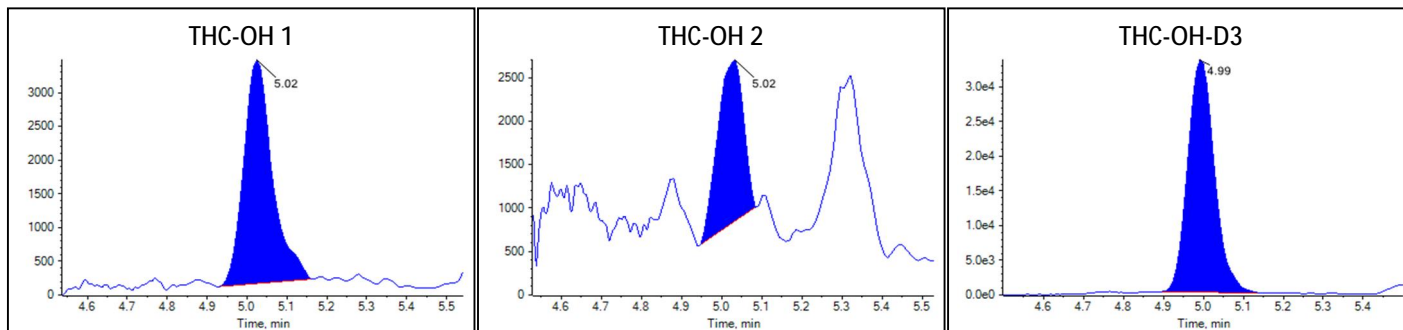
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.1061	0.929		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	3.0176	29.503		

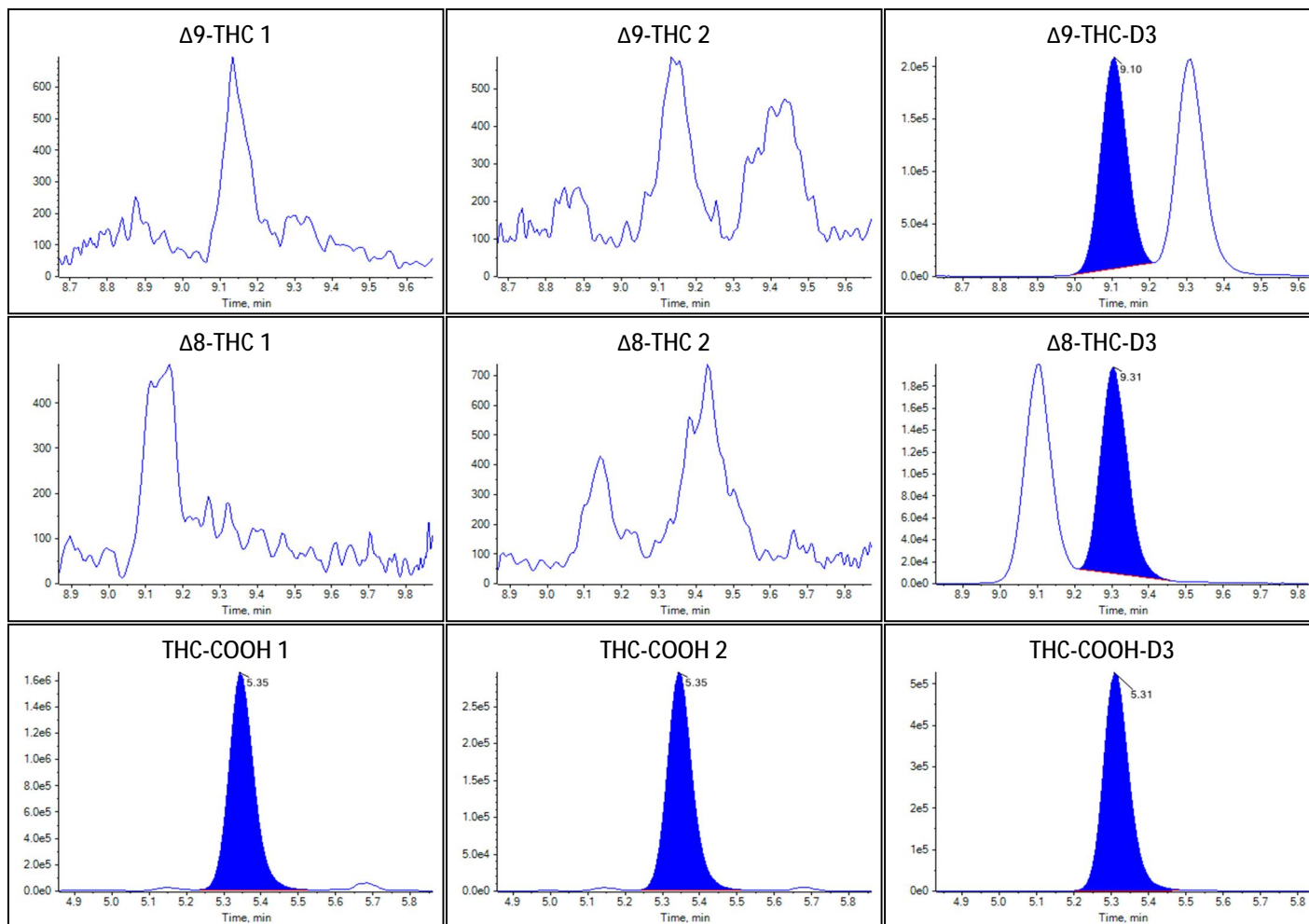
Identification Summary: W6

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.506(Pass)
Δ^9 -THC 1	315.1 / 193.1	N/A	
Δ^9 -THC 2	315.1 / 123.0	N/A	N/A
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.180(Pass)

Peak Review: W6



Peak Review: W6





Sample Summary

Sample Name	W7
Acquisition Date/Time	2022-09-29T03:59:03
Acquisition Method	THC.dam
Batch Name	20220928JLG Wisconsin.dab
Results Table	20220928 JLG Wisconsin
Sample Type	Unknown
File Name	20220928 JLG Wisconsin.wiff
Position	47
Sample Comment	

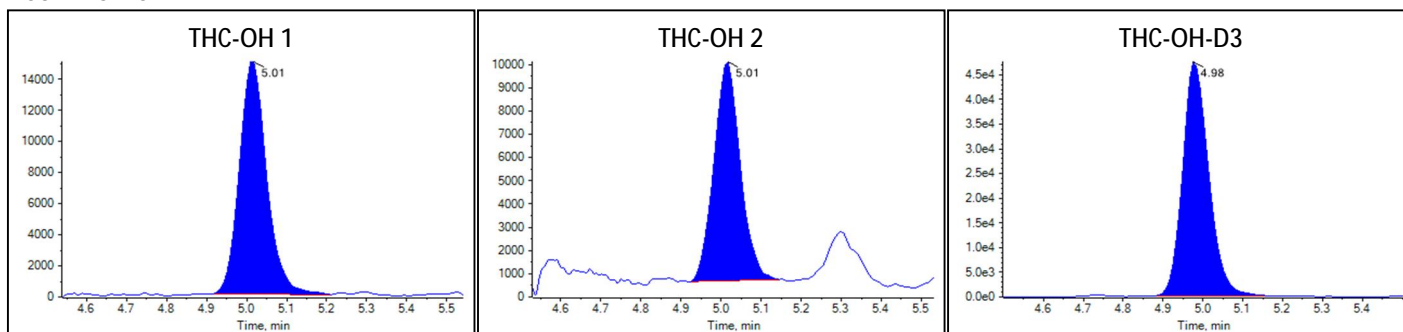
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.3302	2.840		
Δ^9 -THC	0.4376	13.952		
Δ^8 -THC	N/A	N/A		
THC-COOH	8.0622	79.282		

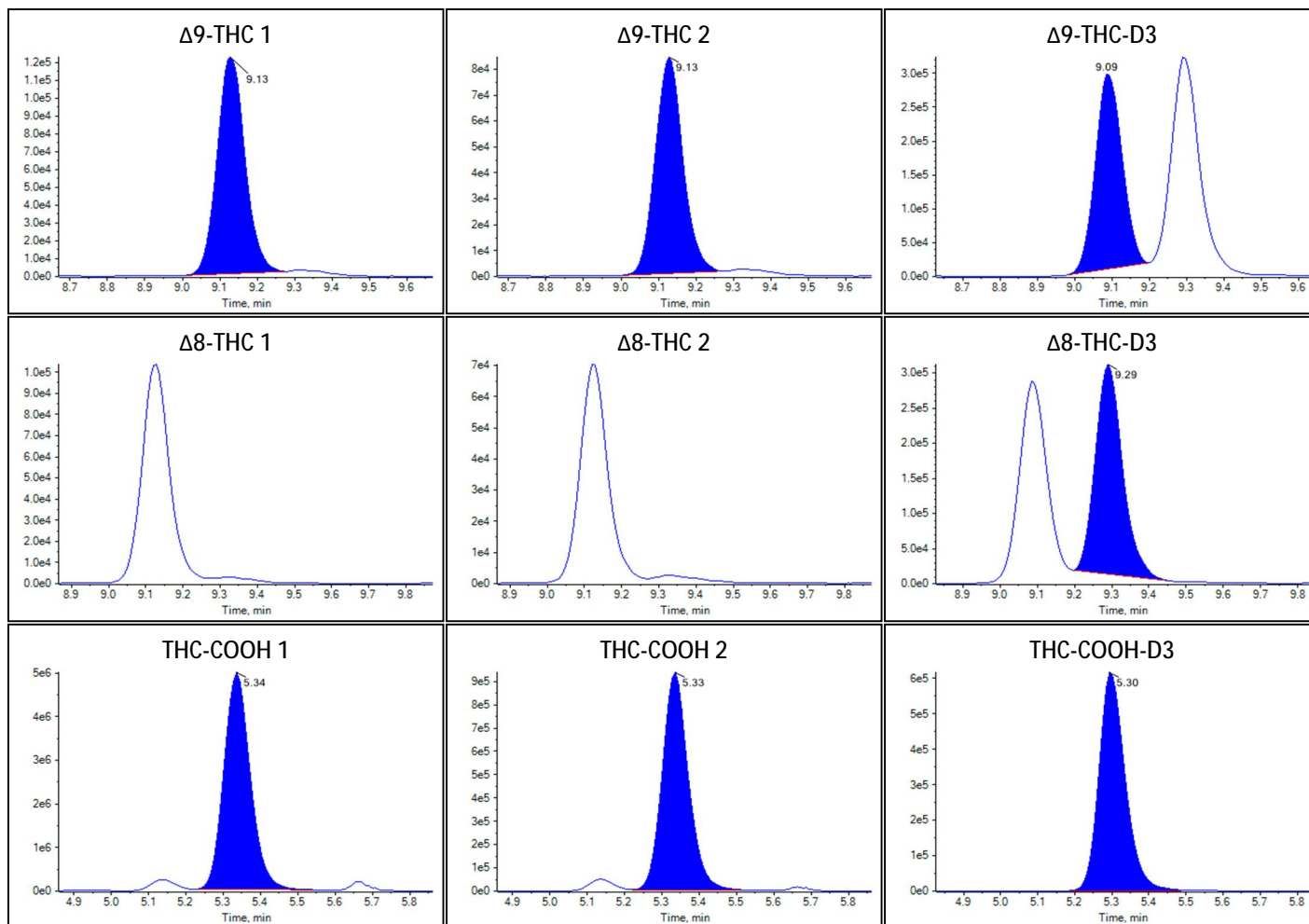
Identification Summary: W7

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.603(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.680(Pass)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.186(Pass)

Peak Review: W7



Peak Review: W7





Sample Summary

Sample Name	W8
Acquisition Date/Time	2022-09-29T04:13:08
Acquisition Method	THC.dam
Batch Name	20220928JLG Wisconsin.dab
Results Table	20220928 JLG Wisconsin
Sample Type	Unknown
File Name	20220928 JLG Wisconsin.wiff
Position	48
Sample Comment	

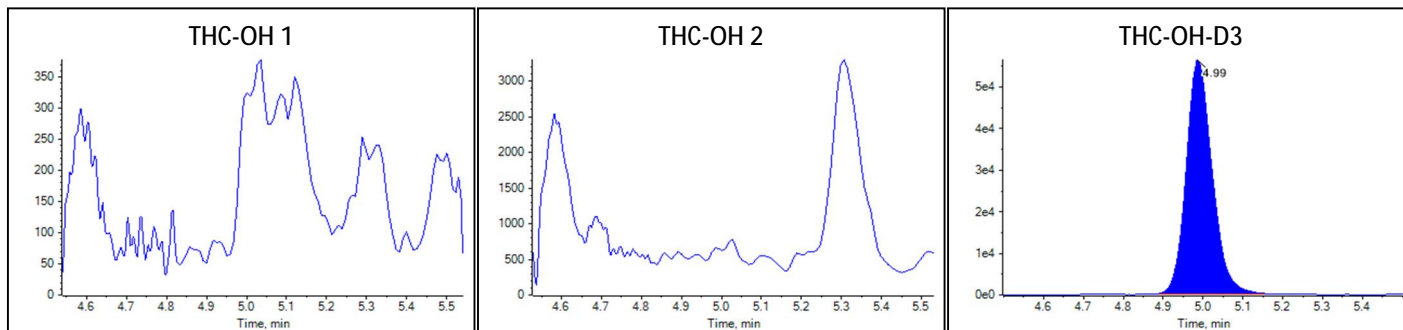
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	0.0084	0.368		
Δ^8 -THC	N/A	N/A		
THC-COOH	0.5937	5.584		

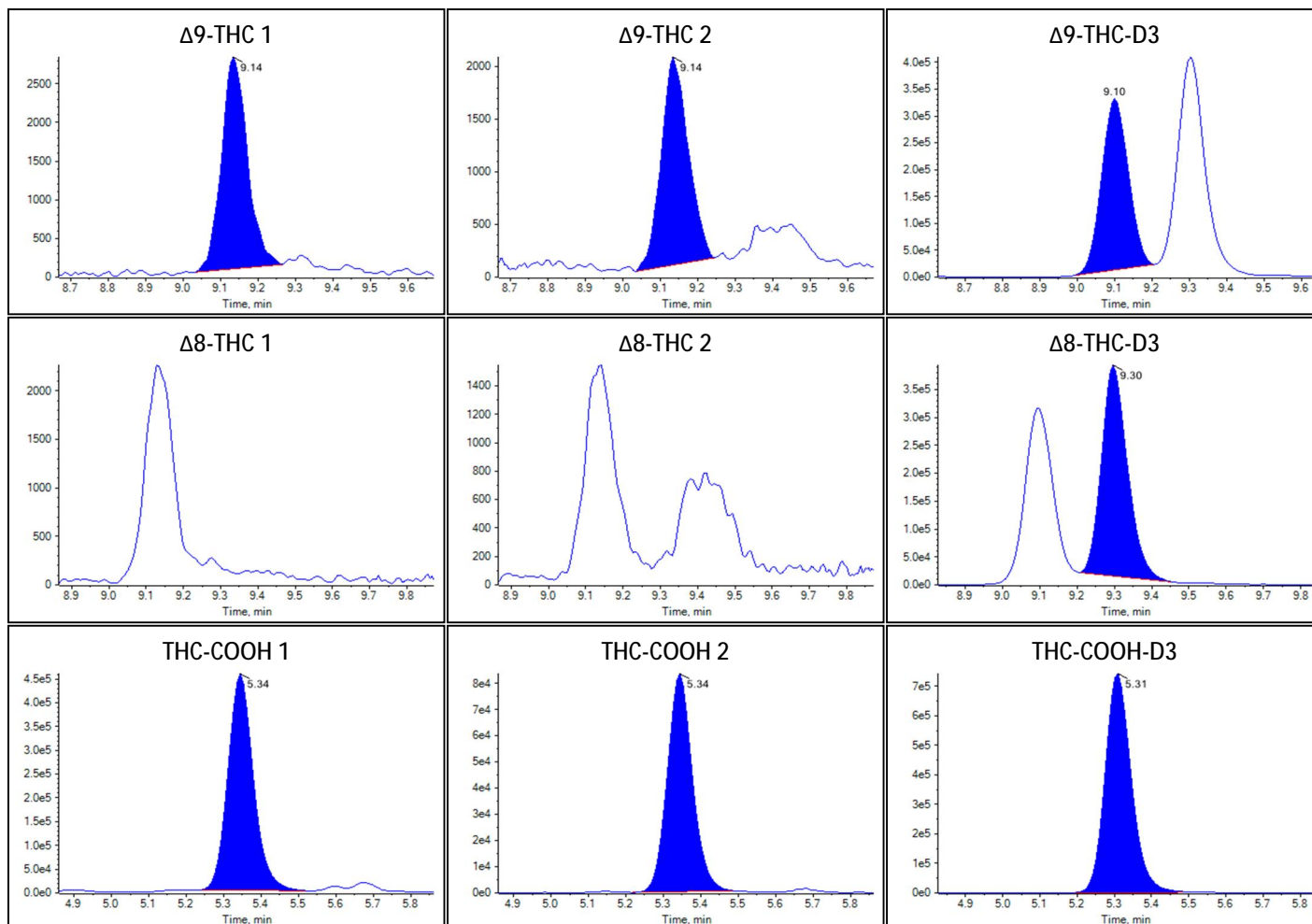
Identification Summary: W8

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.752(Pass)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.180(Pass)

Peak Review: W8



Peak Review: W8





Sample Summary

Sample Name	W9
Acquisition Date/Time	2022-09-29T04:27:14
Acquisition Method	THC.dam
Batch Name	20220928JLG Wisconsin.dab
Results Table	20220928 JLG Wisconsin
Sample Type	Unknown
File Name	20220928 JLG Wisconsin.wiff
Position	49
Sample Comment	

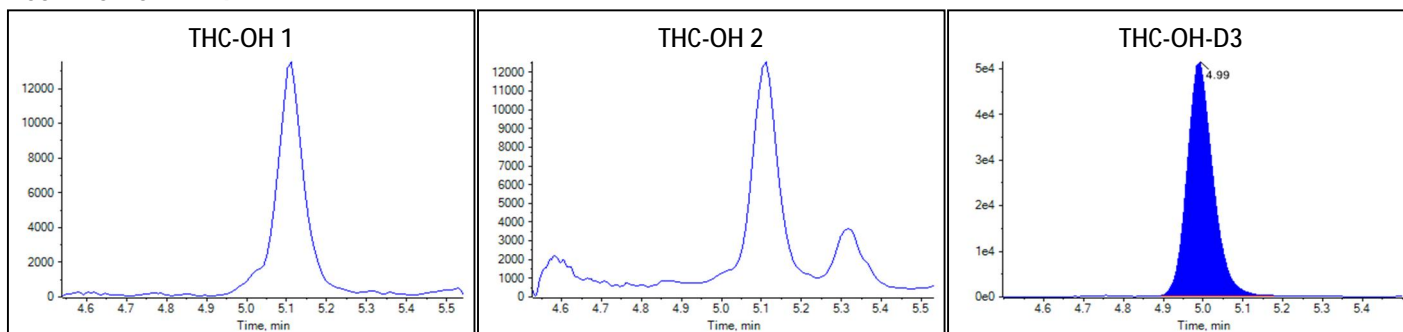
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	0.5848	23.293		
THC-COOH	0.8401	8.016		

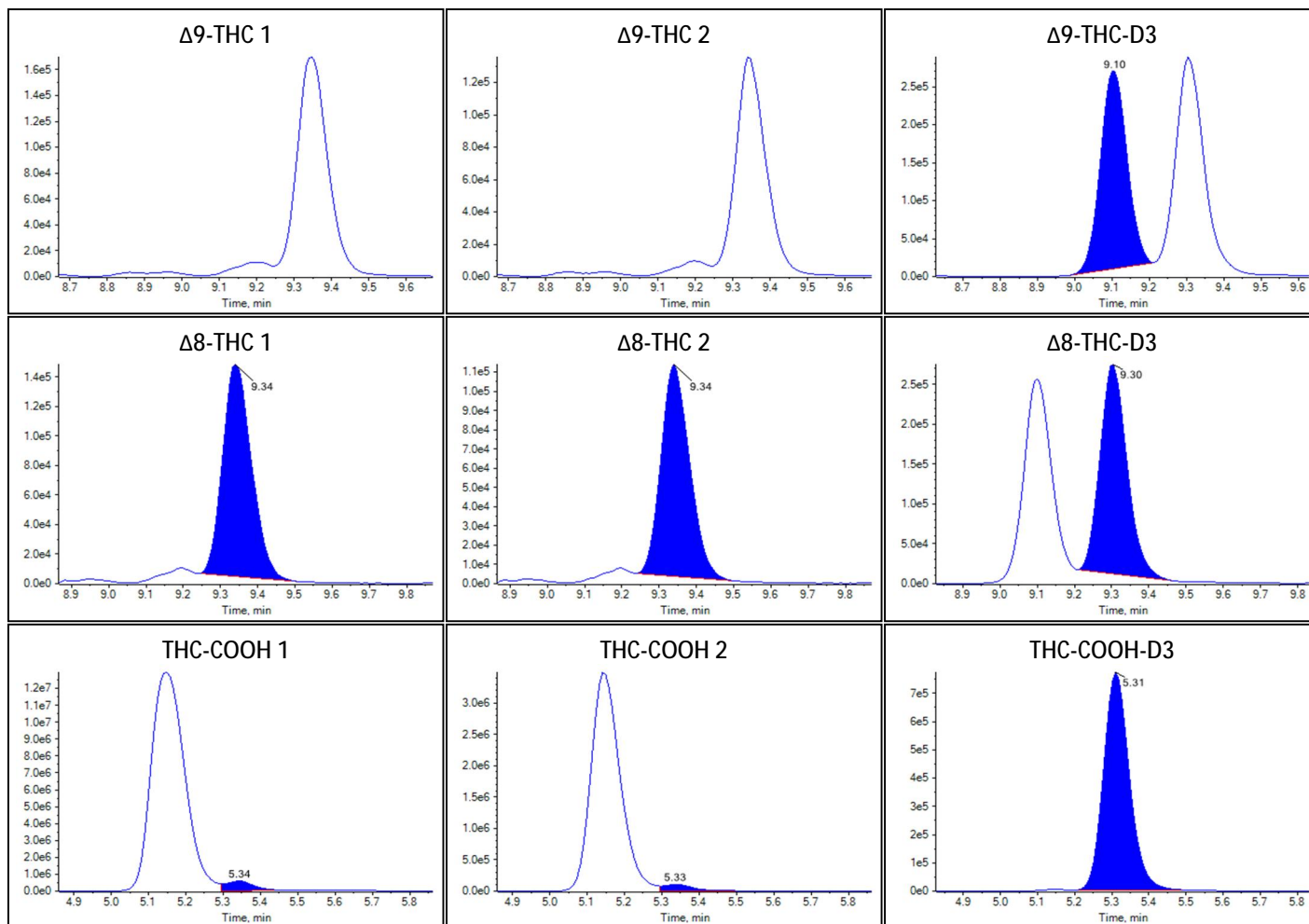
Identification Summary: W9

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ^9 -THC 1	315.1 / 193.1	N/A	
Δ^9 -THC 2	315.1 / 123.0	N/A	N/A
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.757(Pass)
THC-COOH 1	343.0 / 299.1	1.000(Pass)	
THC-COOH 2	343.0 / 191.0	1.000(Pass)	0.184(Pass)

Peak Review: W9



Peak Review: W9





Sample Summary

Sample Name	W10
Acquisition Date/Time	2022-09-29T04:41:16
Acquisition Method	THC.dam
Batch Name	20220928JLG Wisconsin.dab
Results Table	20220928 JLG Wisconsin
Sample Type	Unknown
File Name	20220928 JLG Wisconsin.wiff
Position	50
Sample Comment	

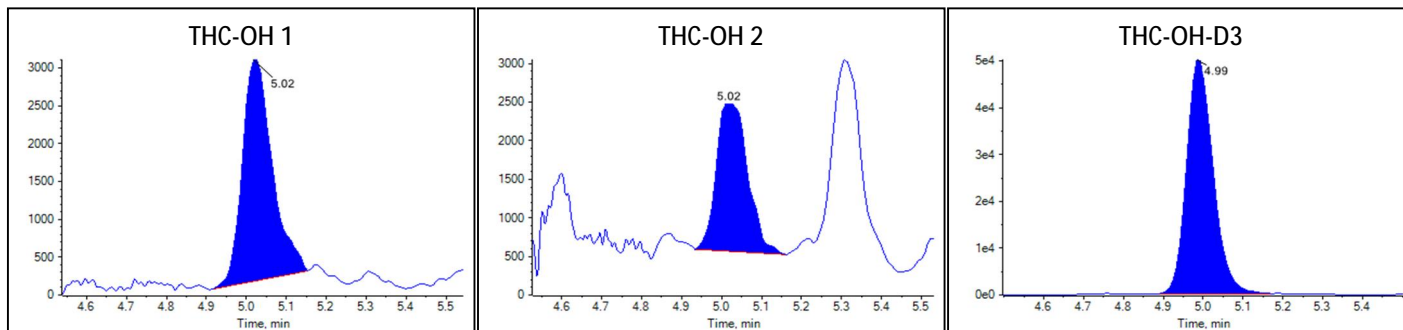
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.0659	0.586		
Δ^9 -THC	0.0432	1.459		
Δ^8 -THC	0.0080	0.554		
THC-COOH	2.1294	20.739		

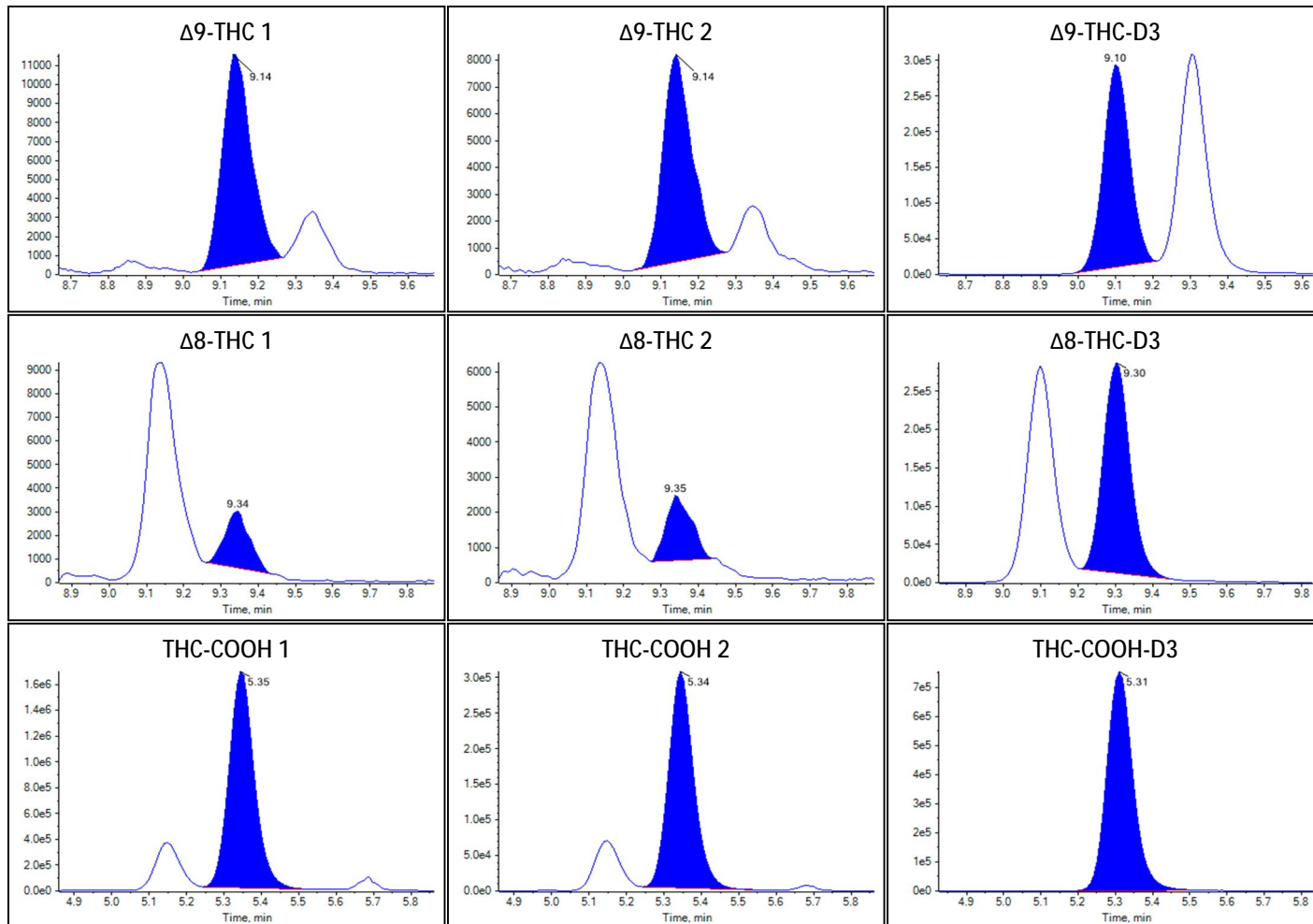
Identification Summary: W10

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.689(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.693(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.786(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.180(Pass)

Peak Review: W10



Peak Review: W10





Sample Summary

Sample Name	W11
Acquisition Date/Time	2022-09-29T04:55:22
Acquisition Method	THC.dam
Batch Name	20220928JLG Wisconsin.dab
Results Table	20220928 JLG Wisconsin
Sample Type	Unknown
File Name	20220928 JLG Wisconsin.wiff
Position	51
Sample Comment	

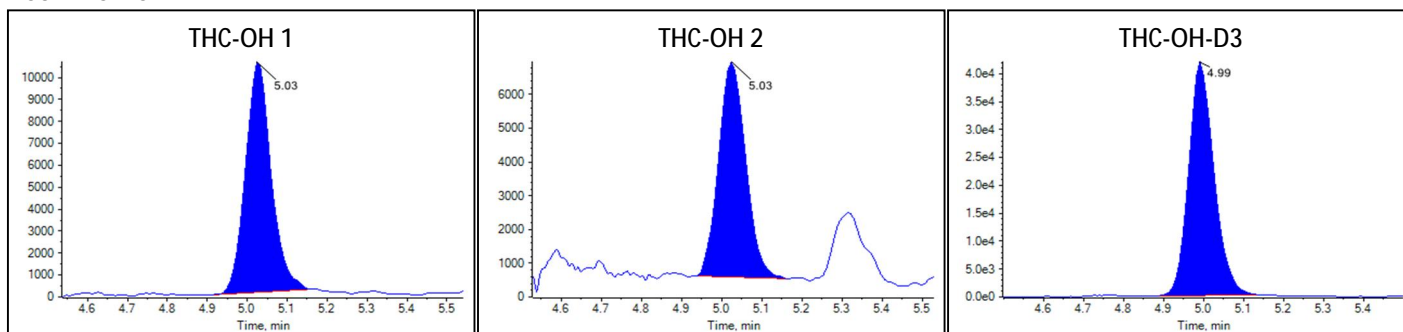
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.2544	2.193		
Δ^9 -THC	0.1175	3.790		
Δ^8 -THC	N/A	N/A		
THC-COOH	8.8532	87.087		

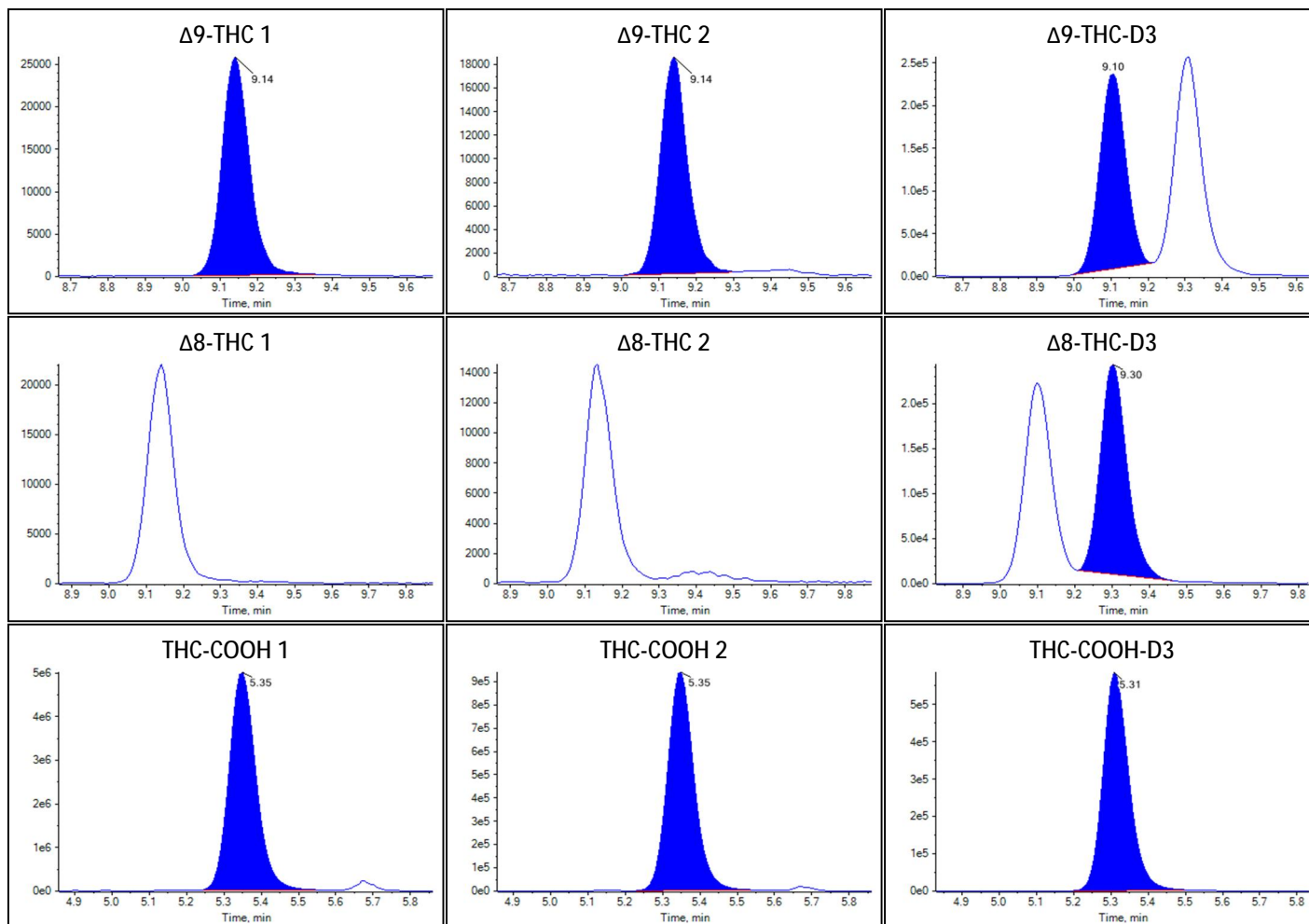
Identification Summary: W11

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.637(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.707(Pass)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.184(Pass)

Peak Review: W11



Peak Review: W11





Sample Summary

Sample Name	W12
Acquisition Date/Time	2022-09-29T05:09:27
Acquisition Method	THC.dam
Batch Name	20220928JLG Wisconsin.dab
Results Table	20220928 JLG Wisconsin
Sample Type	Unknown
File Name	20220928 JLG Wisconsin.wiff
Position	52
Sample Comment	

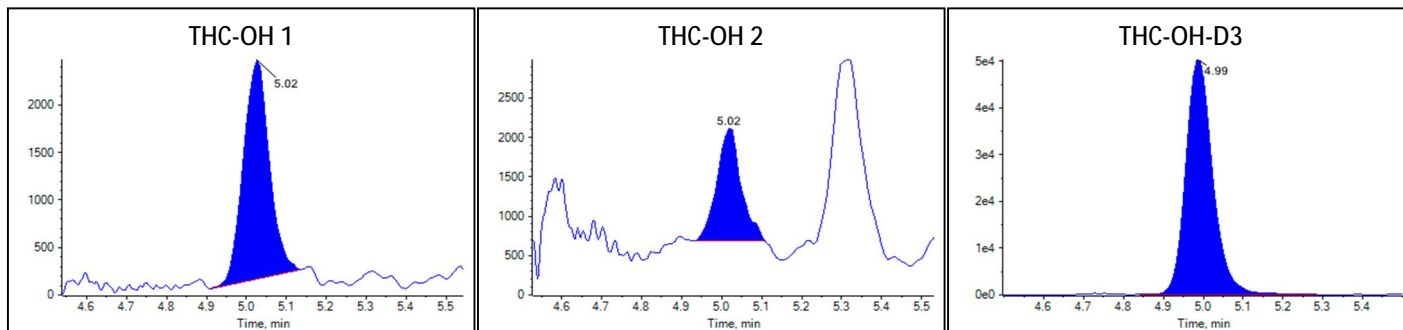
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.0441	0.400		
Δ^9 -THC	0.0180	0.670		
Δ^8 -THC	N/A	N/A		
THC-COOH	0.7872	7.494		

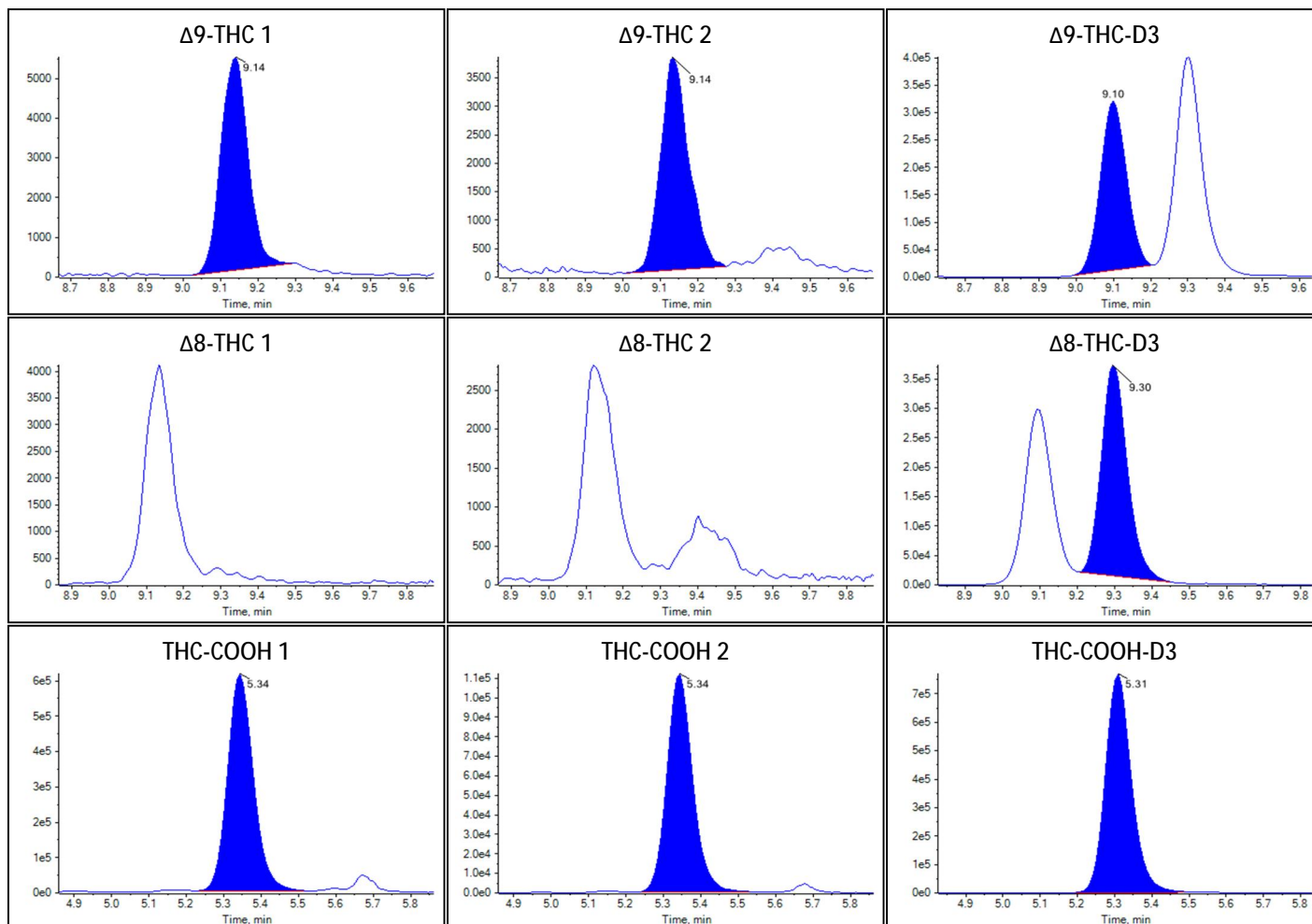
Identification Summary: W12

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.576(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.724(Pass)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.181(Pass)

Peak Review: W12



Peak Review: W12





Sample Summary

Sample Name	W13
Acquisition Date/Time	2022-09-29T05:23:32
Acquisition Method	THC.dam
Batch Name	20220928JLG Wisconsin.dab
Results Table	20220928 JLG Wisconsin
Sample Type	Unknown
File Name	20220928 JLG Wisconsin.wiff
Position	53
Sample Comment	

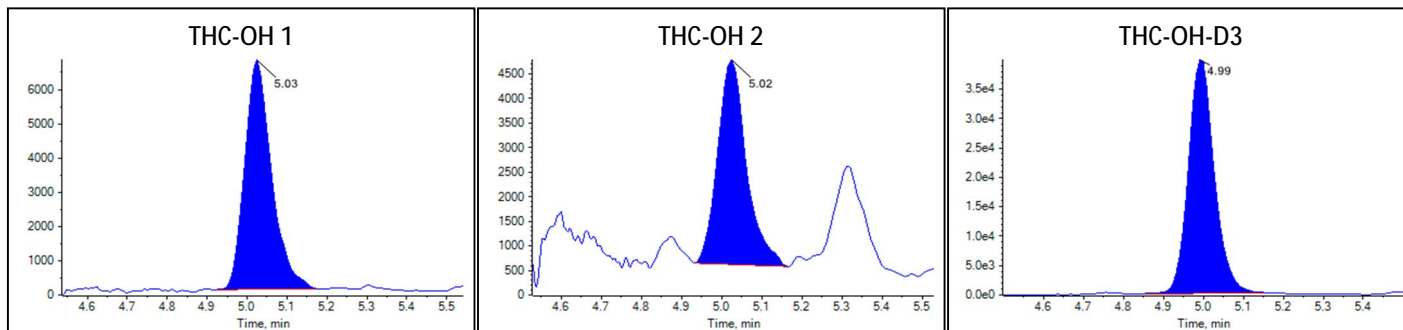
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.1742	1.509		
Δ^9 -THC	0.0164	0.621		
Δ^8 -THC	N/A	N/A		
THC-COOH	5.8721	57.671		

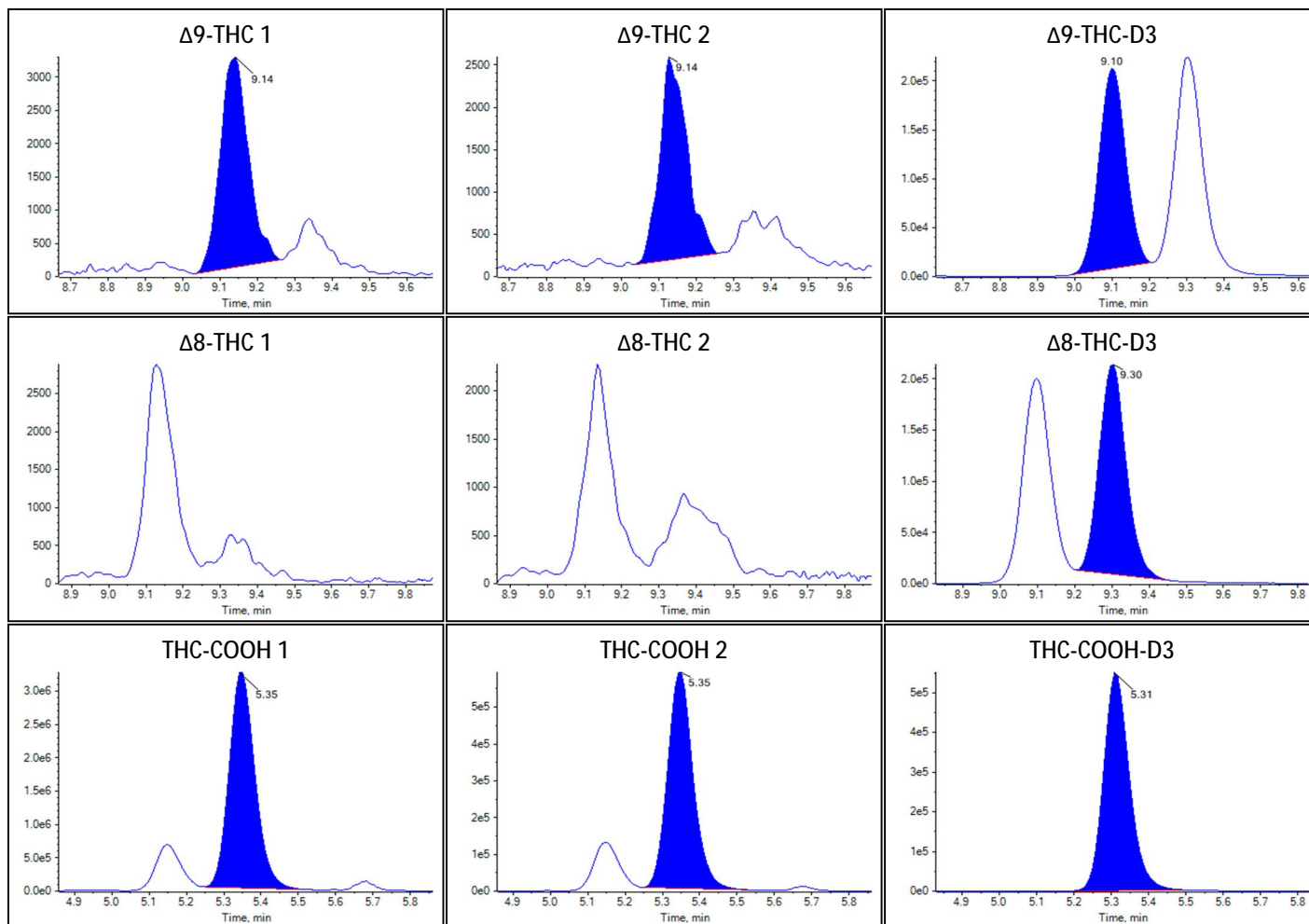
Identification Summary: W13

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.662(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.728(Pass)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.180(Pass)

Peak Review: W13



Peak Review: W13





Sample Summary

Sample Name	W14
Acquisition Date/Time	2022-09-29T05:37:38
Acquisition Method	THC.dam
Batch Name	20220928JLG Wisconsin.dab
Results Table	20220928 JLG Wisconsin
Sample Type	Unknown
File Name	20220928 JLG Wisconsin.wiff
Position	54
Sample Comment	

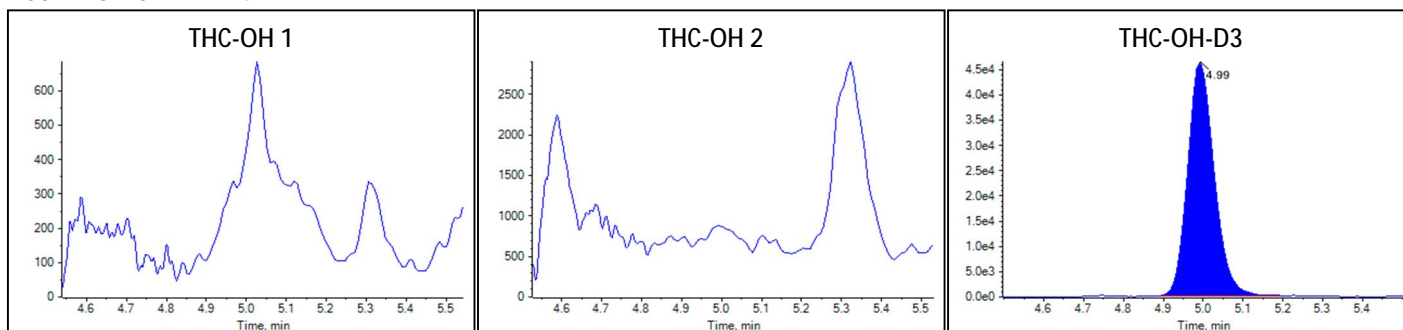
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	0.3777	3.453		

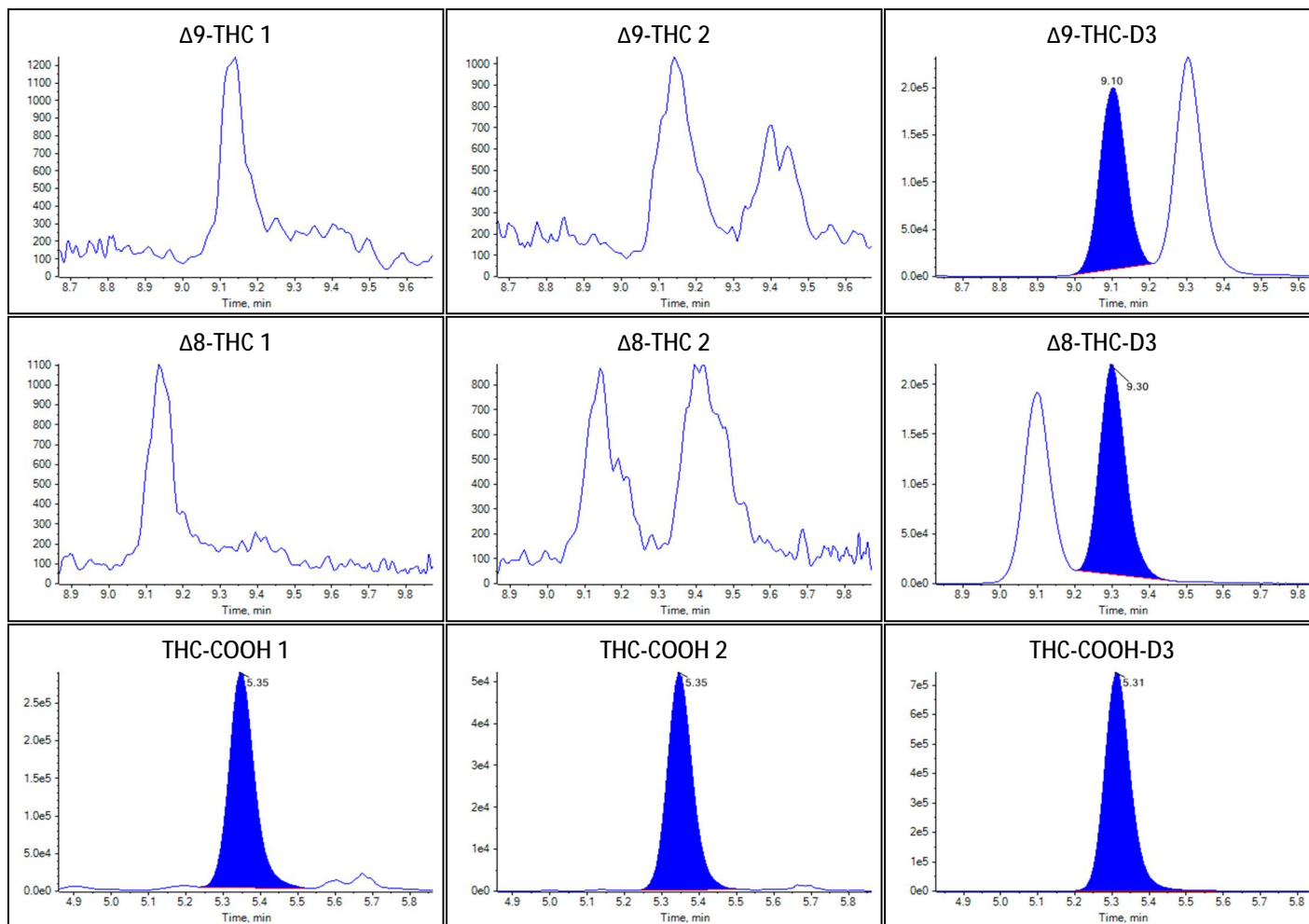
Identification Summary: W14

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ^9 -THC 1	315.1 / 193.1	N/A	
Δ^9 -THC 2	315.1 / 123.0	N/A	N/A
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.178(Pass)

Peak Review: W14



Peak Review: W14





Sample Summary

Sample Name	W15
Acquisition Date/Time	2022-09-29T05:51:43
Acquisition Method	THC.dam
Batch Name	20220928JLG Wisconsin.dab
Results Table	20220928 JLG Wisconsin
Sample Type	Unknown
File Name	20220928 JLG Wisconsin.wiff
Position	55
Sample Comment	

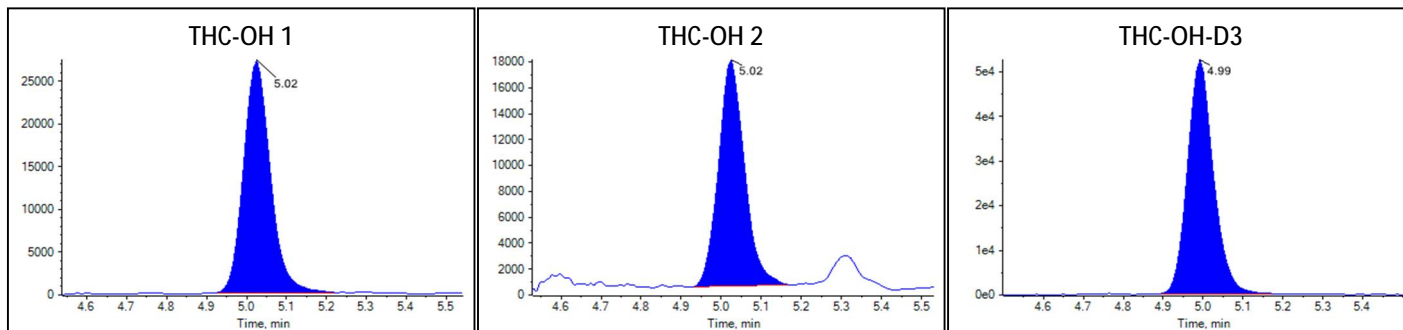
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.5378	4.610		
Δ 9-THC	0.4418	14.087		
Δ 8-THC	N/A	N/A		
THC-COOH	9.5917	94.375		

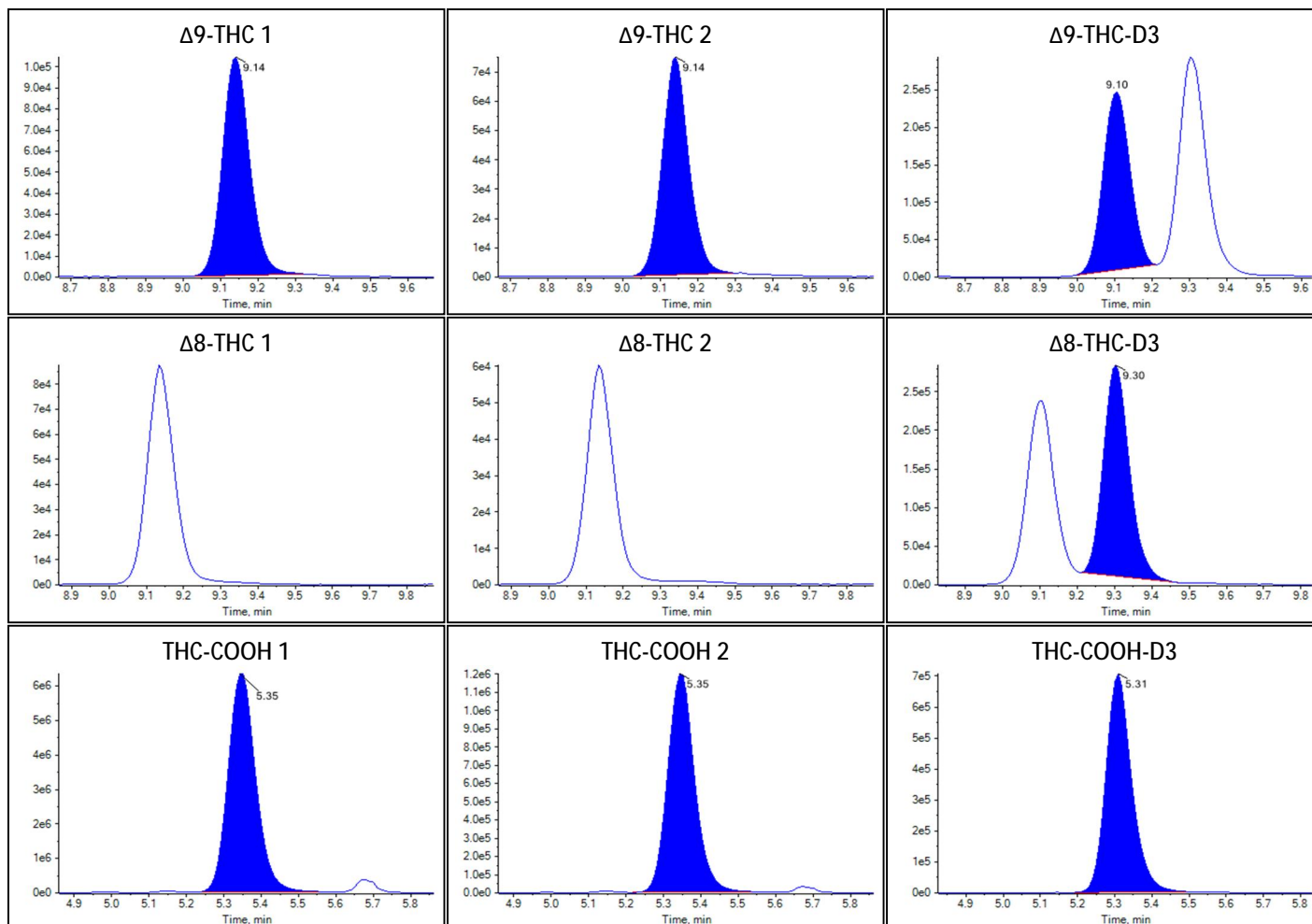
Identification Summary: W15

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.620(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.699(Pass)
Δ 8-THC 1	315.1 / 193.1	N/A	
Δ 8-THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.185(Pass)

Peak Review: W15



Peak Review: W15





Sample Summary

Sample Name	W16
Acquisition Date/Time	2022-09-29T06:05:48
Acquisition Method	THC.dam
Batch Name	20220928JLG Wisconsin.dab
Results Table	20220928 JLG Wisconsin
Sample Type	Unknown
File Name	20220928 JLG Wisconsin.wiff
Position	56
Sample Comment	

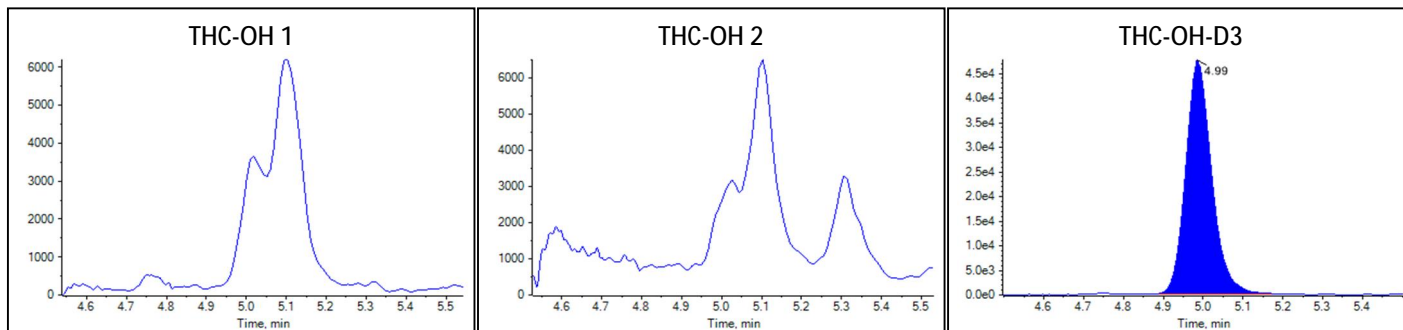
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	0.0885	2.880		
Δ^8 -THC	0.4380	17.246		
THC-COOH	6.6544	65.391		

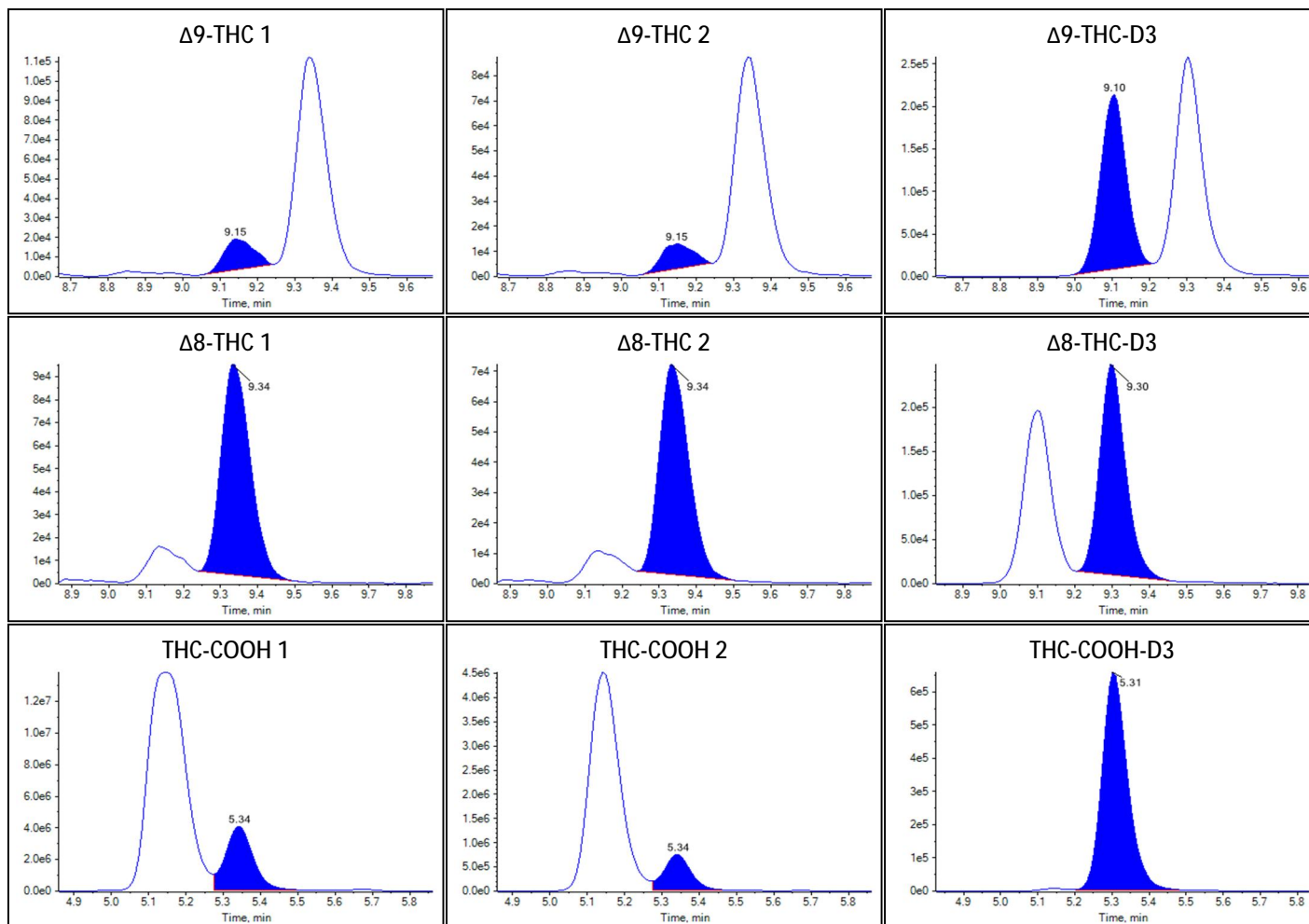
Identification Summary: W16

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.668(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.761(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.183(Pass)

Peak Review: W16



Peak Review: W16





Sample Summary

Sample Name	W17
Acquisition Date/Time	2022-09-29T06:19:54
Acquisition Method	THC.dam
Batch Name	20220928JLG Wisconsin.dab
Results Table	20220928 JLG Wisconsin
Sample Type	Unknown
File Name	20220928 JLG Wisconsin.wiff
Position	57
Sample Comment	

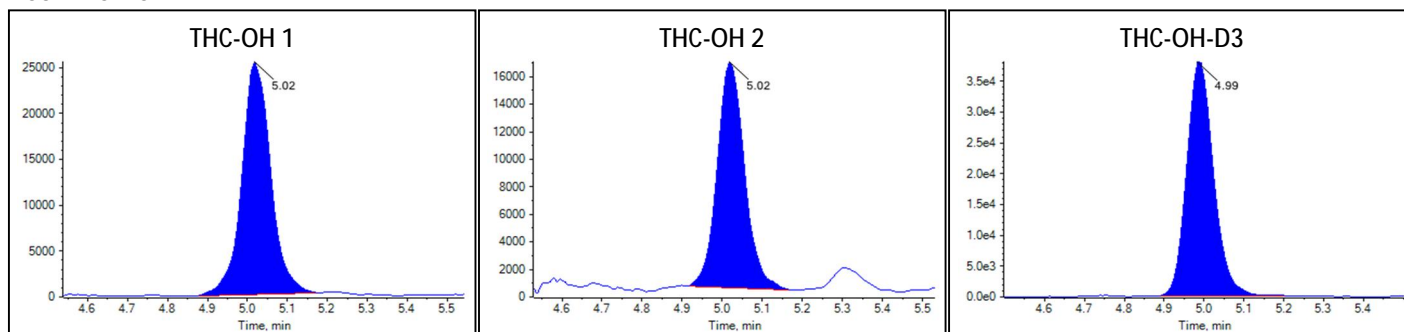
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.7135	6.108		
Δ^9 -THC	4.9334	184.380		
Δ^8 -THC	N/A	N/A		
THC-COOH	7.6662	75.375		

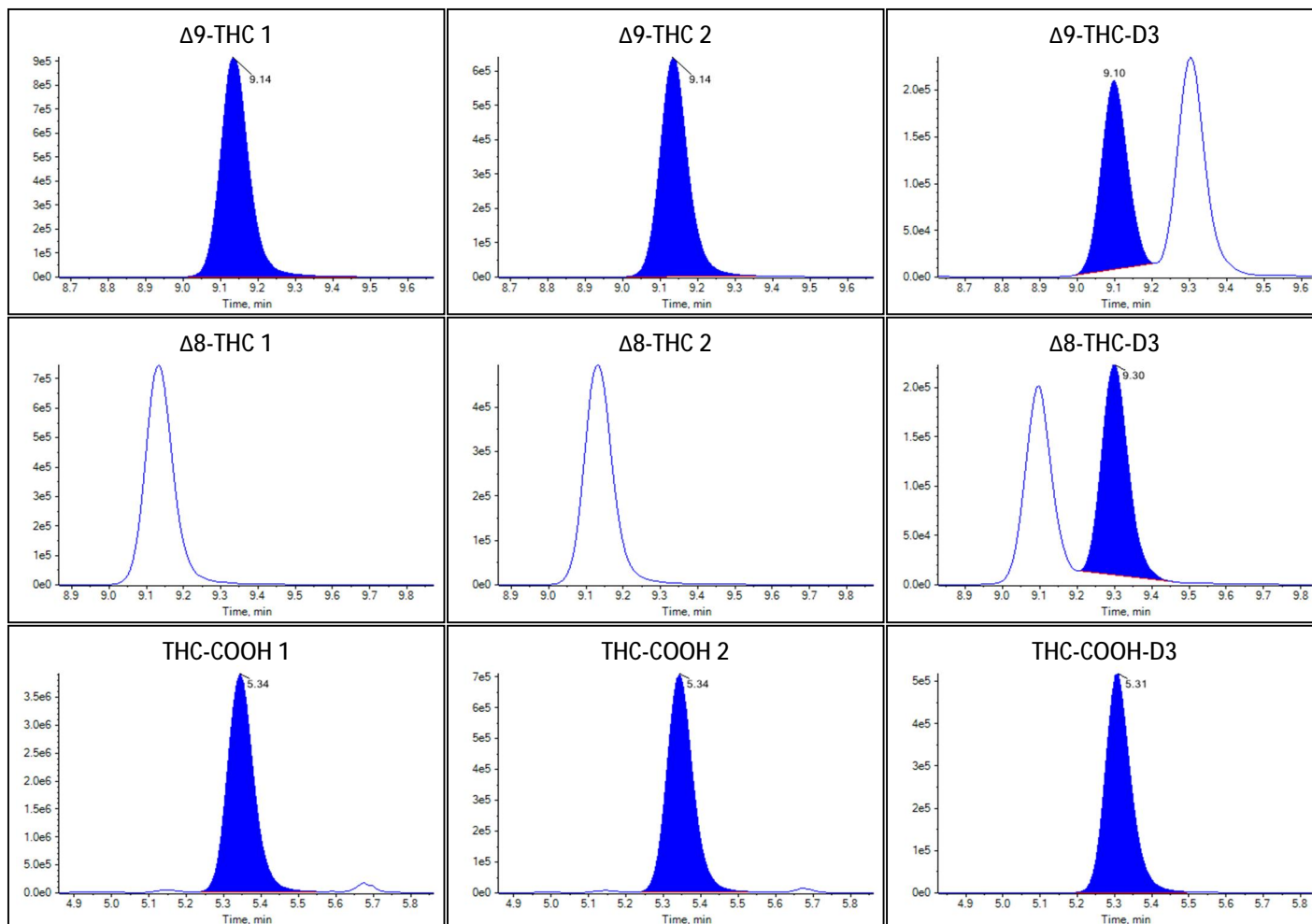
Identification Summary: W17

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.610(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.684(Pass)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.181(Pass)

Peak Review: W17



Peak Review: W17





Sample Summary

Sample Name	W18
Acquisition Date/Time	2022-09-29T06:33:59
Acquisition Method	THC.dam
Batch Name	20220928JLG Wisconsin.dab
Results Table	20220928 JLG Wisconsin
Sample Type	Unknown
File Name	20220928 JLG Wisconsin.wiff
Position	58
Sample Comment	

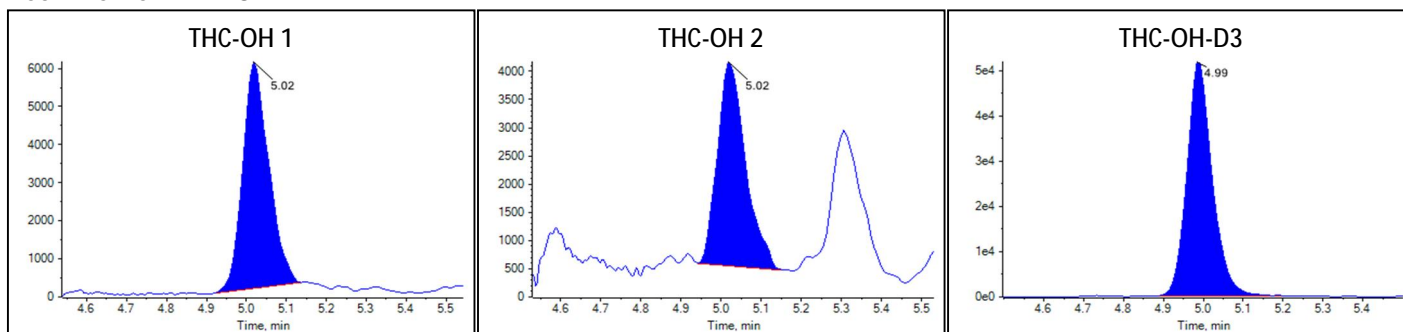
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.1177	1.027		
Δ 9-THC	0.0690	2.268		
Δ 8-THC	N/A	N/A		
THC-COOH	2.5925	25.308		

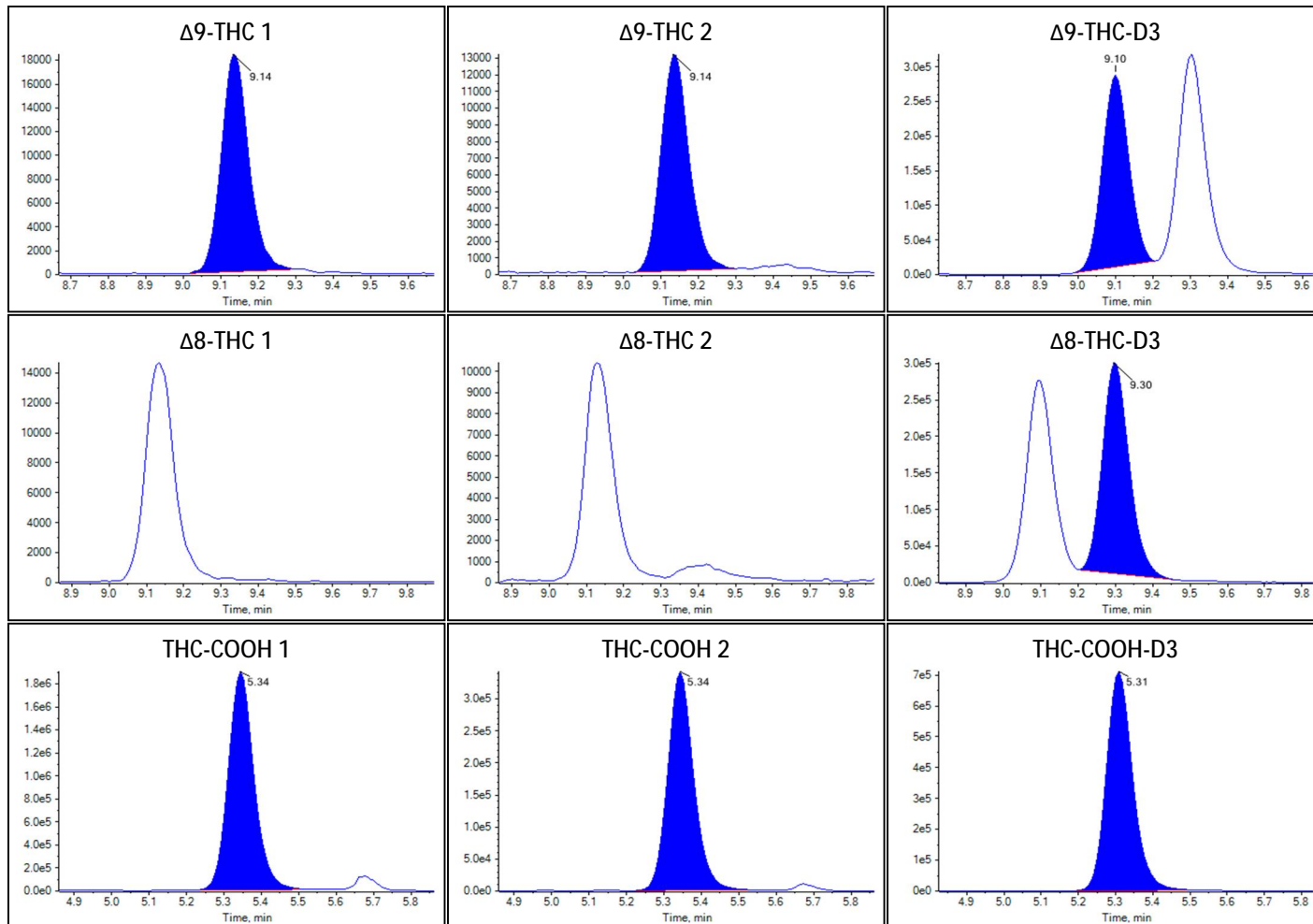
Identification Summary: W18

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.653(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.728(Pass)
Δ 8-THC 1	315.1 / 193.1	N/A	
Δ 8-THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.181(Pass)

Peak Review: W18



Peak Review: W18





Sample Summary

Sample Name	W19
Acquisition Date/Time	2022-09-29T06:48:08
Acquisition Method	THC.dam
Batch Name	20220928JLG Wisconsin.dab
Results Table	20220928 JLG Wisconsin
Sample Type	Unknown
File Name	20220928 JLG Wisconsin.wiff
Position	59
Sample Comment	

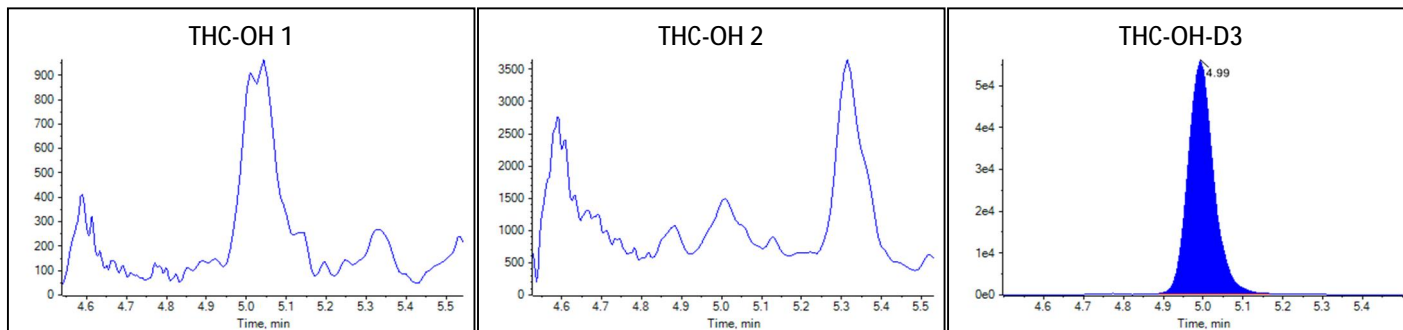
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	0.0096	0.408		
Δ^8 -THC	N/A	N/A		
THC-COOH	0.3050	2.735		

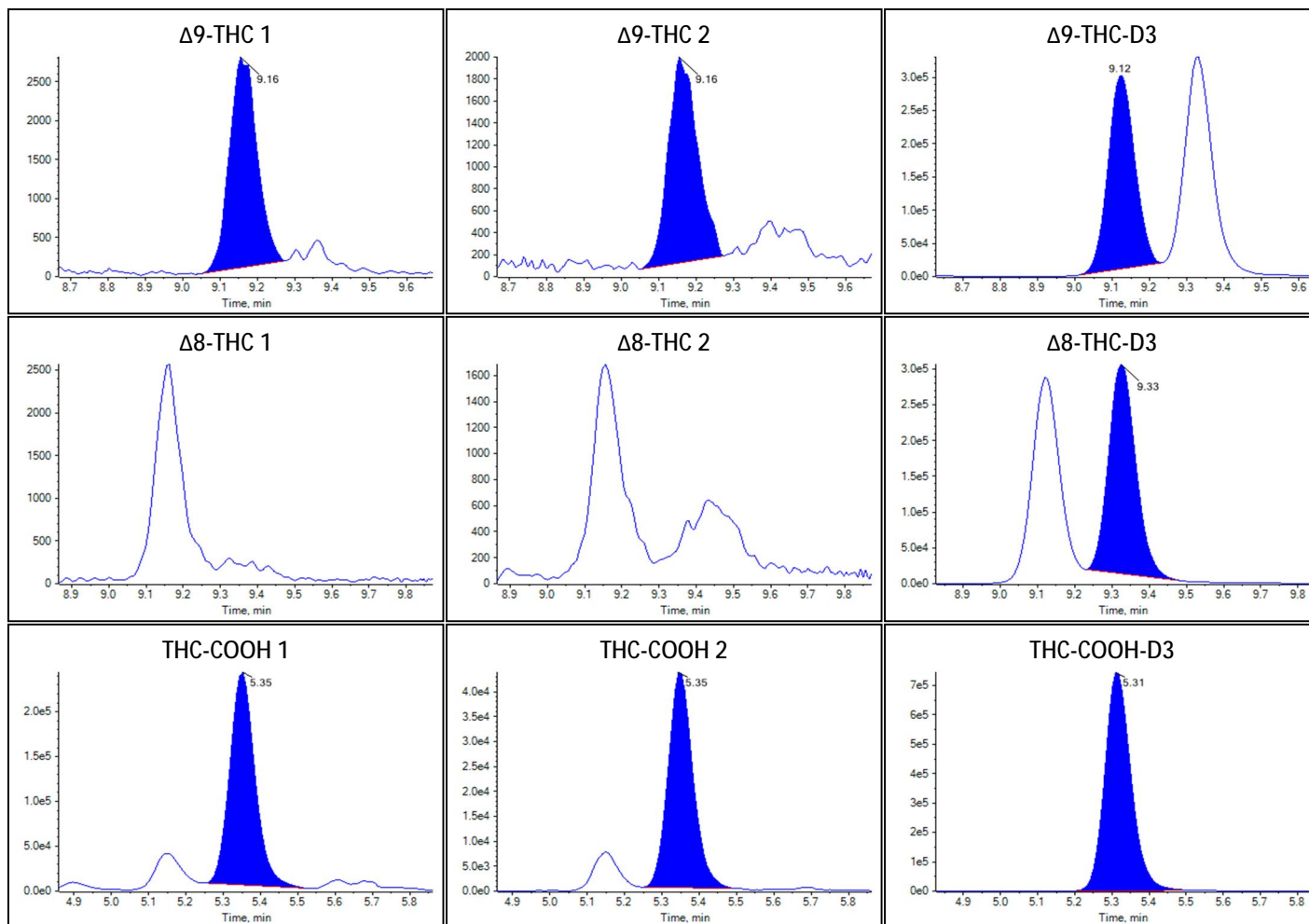
Identification Summary: W19

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.734(Pass)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.179(Pass)

Peak Review: W19



Peak Review: W19





Sample Summary

Sample Name	Low
Acquisition Date/Time	2022-09-29T07:02:13
Acquisition Method	THC.dam
Batch Name	20220928JLG Wisconsin.dab
Results Table	20220928 JLG Wisconsin
Sample Type	Quality Control
File Name	20220928 JLG Wisconsin.wiff
Position	39
Sample Comment	

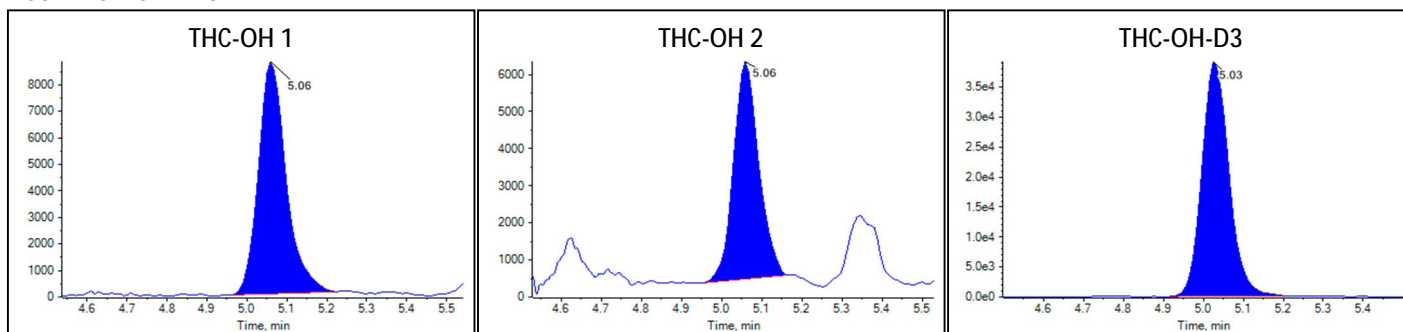
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.2294	1.981		
Δ^9 -THC	0.0914	2.971		
Δ^8 -THC	0.0685	2.821		
THC-COOH	0.8039	7.659		

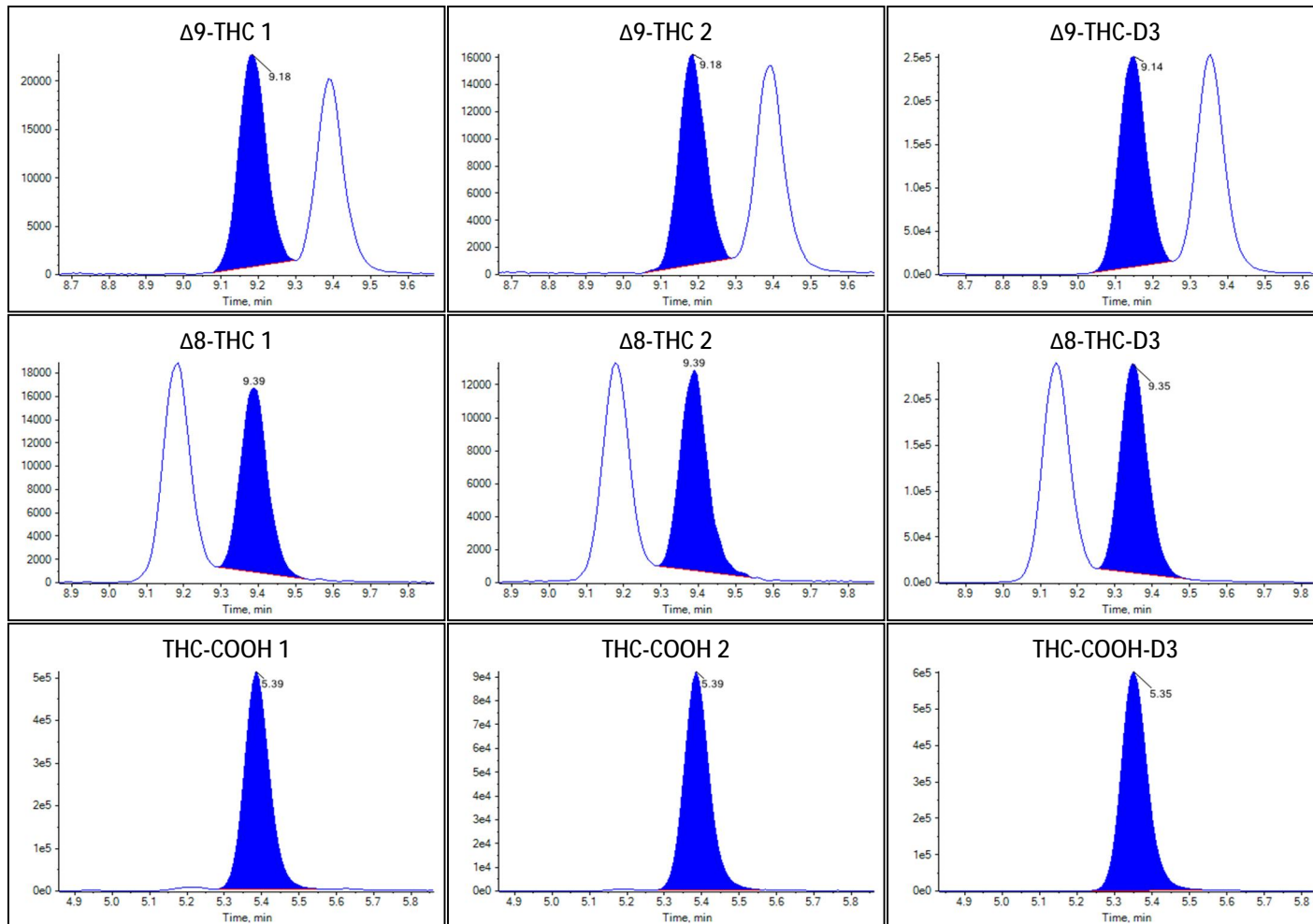
Identification Summary: Low

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.608(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.680(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.773(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.181(Pass)

Peak Review: Low



Peak Review: Low





Sample Summary

Sample Name	W20
Acquisition Date/Time	2022-09-29T07:16:18
Acquisition Method	THC.dam
Batch Name	20220928JLG Wisconsin.dab
Results Table	20220928 JLG Wisconsin
Sample Type	Unknown
File Name	20220928 JLG Wisconsin.wiff
Position	60
Sample Comment	

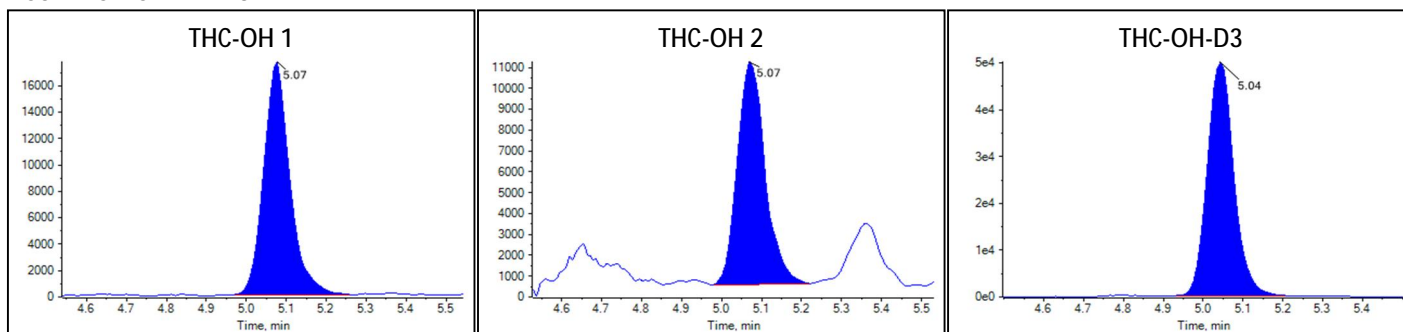
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.3457	2.972		
Δ 9-THC	0.6052	19.350		
Δ 8-THC	N/A	N/A		
THC-COOH	8.5907	84.498		

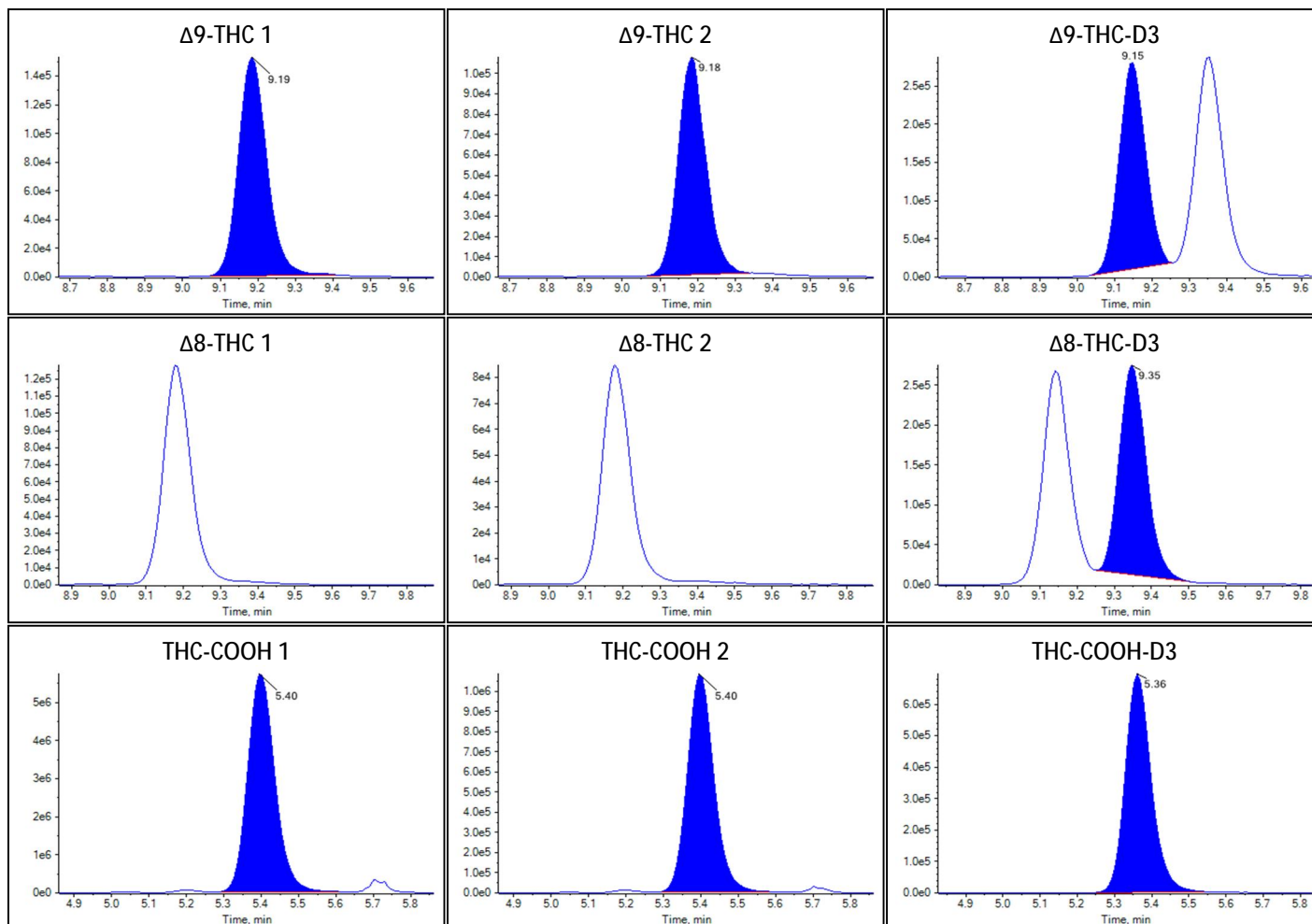
Identification Summary: W20

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.643(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.679(Pass)
Δ 8-THC 1	315.1 / 193.1	N/A	
Δ 8-THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.185(Pass)

Peak Review: W20



Peak Review: W20





Sample Summary

Sample Name	High
Acquisition Date/Time	2022-09-29T07:30:24
Acquisition Method	THC.dam
Batch Name	20220928JLG Wisconsin.dab
Results Table	20220928 JLG Wisconsin
Sample Type	Quality Control
File Name	20220928 JLG Wisconsin.wiff
Position	40
Sample Comment	

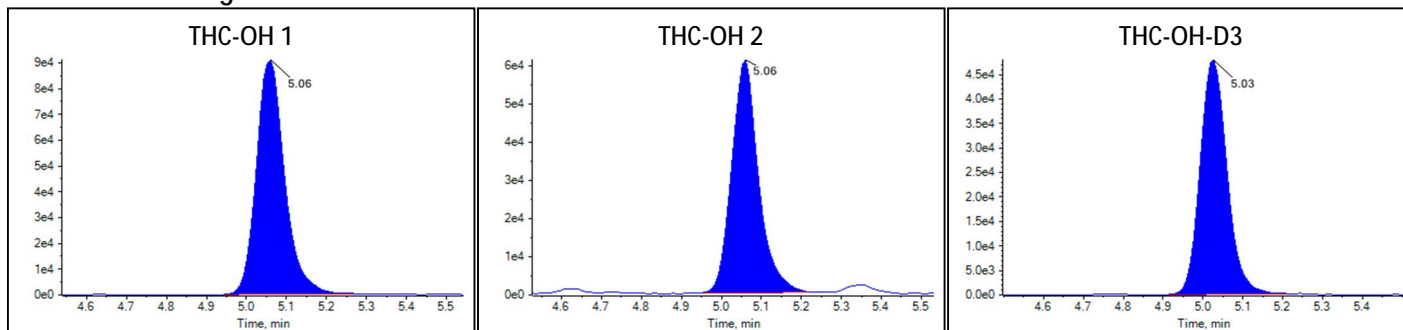
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.9879	16.976		
Δ^9 -THC	2.5844	87.670		
Δ^8 -THC	1.9081	91.184		
THC-COOH	7.8363	77.053		

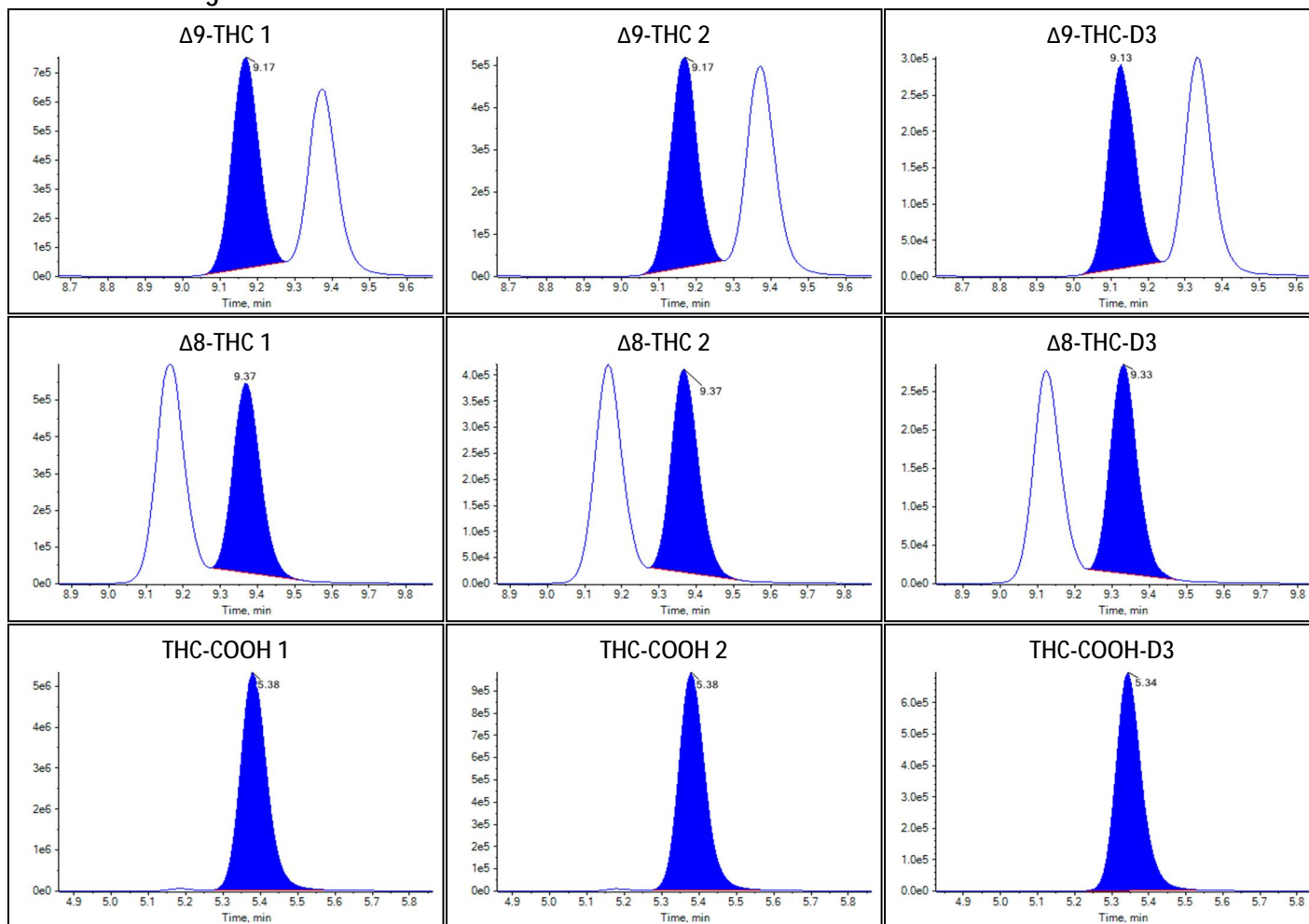
Identification Summary: High

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.637(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.691(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.755(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.183(Pass)

Peak Review: High



Peak Review: High



Cannabinoid Lot Log	
Date	9-28-22
Analyst	8MC
Checked tubes	
Sample preparation	
Sample Pipette	007
Blank Blood	FU 1
Standards	9-14-22 JLG
Controls	9-14-22 JLG
Standards/Controls Pipette	064
Internal Standard	9-28-22 9-14-22 SB
Internal Standard Pipette	103
0.1 % formic acid in H ₂ O	9-16-22 DMC
Extraction	
SLE Cartridge	820-2-26
MTBE	L322A-4
B: 0.1% formic acid in ACN	8-29-22 SB
A: 0.1 % formic acid in H ₂ O	9-21-22 DMC
Instrumentation	
A: 0.1 % formic acid in H ₂ O	9-21-22 DMC
B: 0.1% formic acid in ACN	9-14-22 DMC
Column Serial Number	USCGC 17438
Instrument	21-1
Sequence Check:	
Notes:	



Toxicology Unit
Calibration/Control Report
Quantitative Analysis

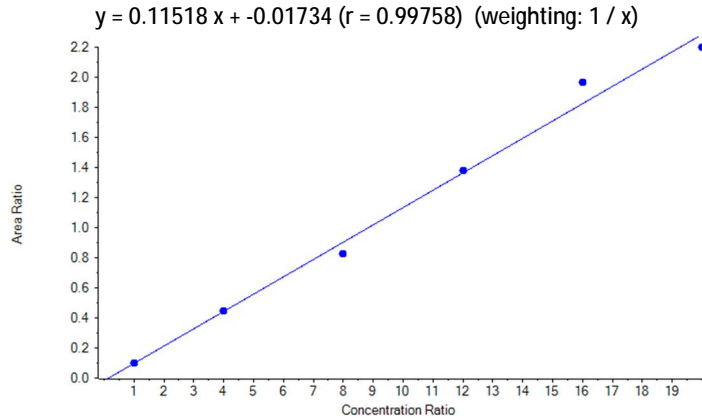
Batch Summary

Acquisition Method	THC.dam
Project	THC
Result Table	20220928 SK Wisconsin

Result Table List

Sample Name	Sample Type	Position	Acquisition Time	Sample Comment
Standard 1	Standard	1	2022-09-28 17:11:00	
Standard 2	Standard	2	2022-09-28 17:25:04	
Standard 3	Standard	3	2022-09-28 17:39:09	
Standard 4	Standard	4	2022-09-28 17:53:15	
Standard 5	Standard	5	2022-09-28 18:07:20	
Standard 6	Standard	6	2022-09-28 18:21:26	
Negative	Quality Control	7	2022-09-28 18:35:31	
Medium	Quality Control	8	2022-09-28 18:49:37	
5 µL injection	Unknown	1	2022-09-28 19:03:42	
W1	Unknown	11	2022-09-28 19:17:47	
W2	Unknown	12	2022-09-28 19:31:53	
W3	Unknown	13	2022-09-28 19:45:58	
W4	Unknown	14	2022-09-28 20:00:04	
W5	Unknown	15	2022-09-28 20:14:09	
W6	Unknown	16	2022-09-28 20:28:14	
W7	Unknown	17	2022-09-28 20:42:20	
W8	Unknown	18	2022-09-28 20:56:25	
W9	Unknown	19	2022-09-28 21:10:30	
W10	Unknown	20	2022-09-28 21:24:36	
W11	Unknown	21	2022-09-28 21:38:41	
W12	Unknown	22	2022-09-28 21:52:47	
W13	Unknown	23	2022-09-28 22:06:52	
W14	Unknown	24	2022-09-28 22:20:58	
W15	Unknown	25	2022-09-28 22:35:03	
W16	Unknown	26	2022-09-28 22:49:08	
W17	Unknown	27	2022-09-28 23:03:17	
W18	Unknown	28	2022-09-28 23:17:25	
W19	Unknown	29	2022-09-28 23:31:31	
Low	Quality Control	9	2022-09-28 23:45:36	
W20	Unknown	30	2022-09-28 23:59:41	
High	Quality Control	10	2022-09-29 00:13:47	

Calibration Summary: THC-OH



Analyte Transition Mass	
Internal Standard	THC-OH-D3
I.S. Transition Mass	334.1 / 196.1
THC-OH 1	331.1 / 193.1
THC-OH 2	331.1 / 105.1
Relative Retention time: Expected (Acceptance Range)	
THC-OH 1	1.006 (0.981-1.031)
THC-OH 2	1.006 (0.981-1.031)
Ion Ratio: Expected (Acceptance Range)	
THC-OH 2	0.639 (0.510-0.766)
THC-OH comment	

Quantitative Summary: THC-OH

Sample Name	Area Ratio	Actual Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
Standard 1	0.1020	1.00	1.032	103.19
Standard 2	0.4440	4.00	4.003	100.09
Standard 3	0.8260	8.00	7.323	91.53
Standard 4	1.3790	12.00	12.124	101.03
Standard 5	1.9700	16.00	17.255	107.85
Standard 6	2.2010	20.00	19.263	96.31
Negative	N/A	0.00	N/A	N/A
Medium	1.1860	10.00	10.446	104.46
Low	0.2130	2.00	1.996	99.80
High	1.9560	18.00	17.130	95.17

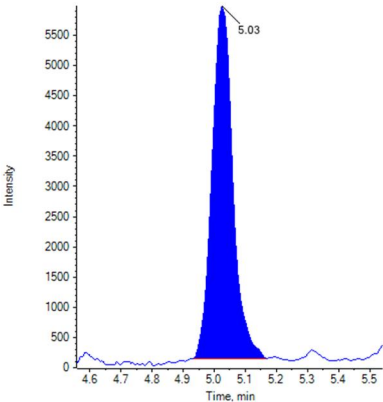
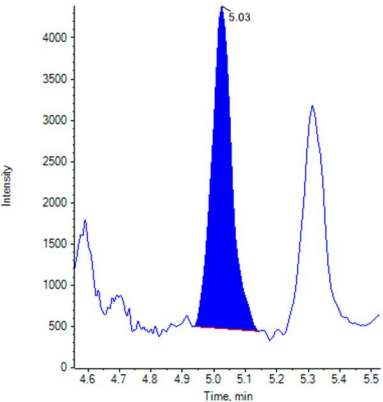
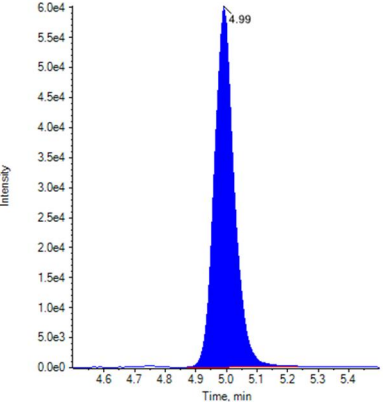
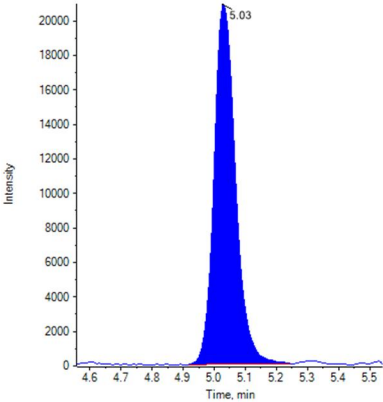
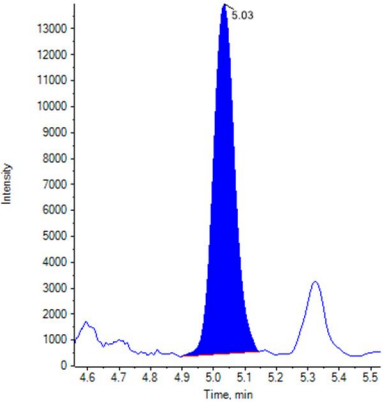
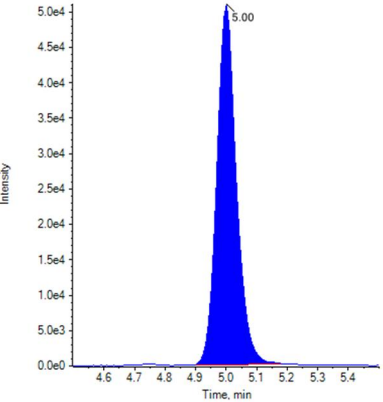
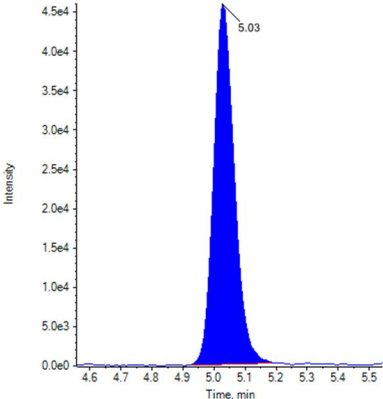
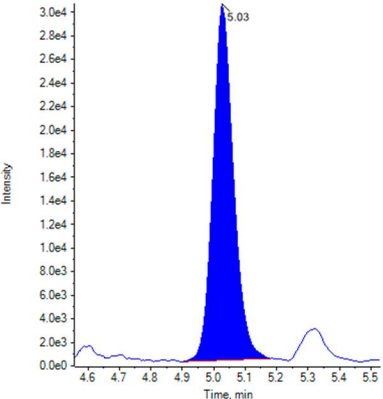
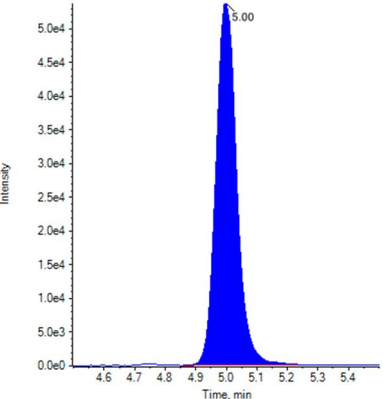
Identification Summary: THC-OH

Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 1	THC-OH 1	1.010 (Pass)	0.632 (Pass)
	THC-OH 2	1.010 (Pass)	
Standard 2	THC-OH 1	1.010 (Pass)	0.628 (Pass)
	THC-OH 2	1.010 (Pass)	
Standard 3	THC-OH 1	1.010 (Pass)	0.646 (Pass)
	THC-OH 2	1.010 (Pass)	
Standard 4	THC-OH 1	1.010 (Pass)	0.646 (Pass)
	THC-OH 2	1.010 (Pass)	
Standard 5	THC-OH 1	1.010 (Pass)	0.614 (Pass)
	THC-OH 2	1.010 (Pass)	
Standard 6	THC-OH 1	1.010 (Pass)	0.665 (Pass)
	THC-OH 2	1.010 (Pass)	
Negative	THC-OH 1	N/A ()	N/A ()

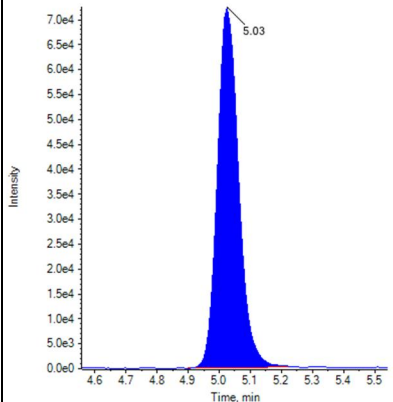
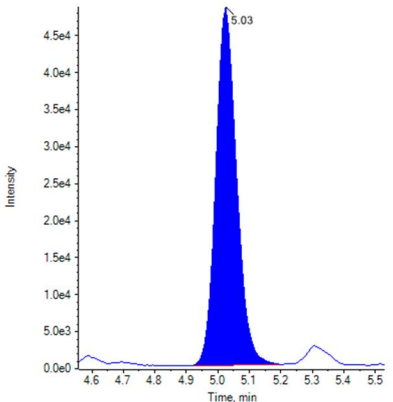
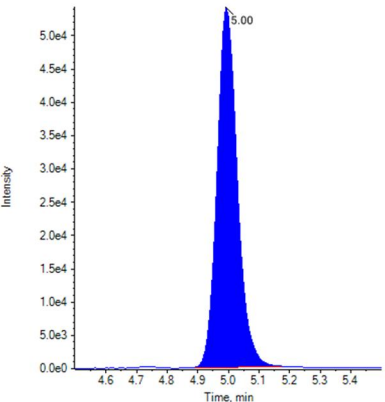
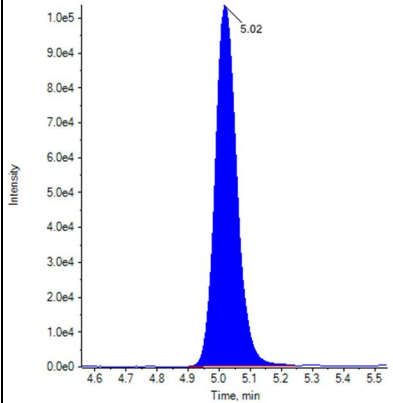
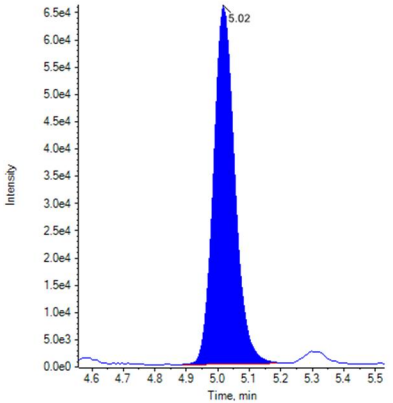
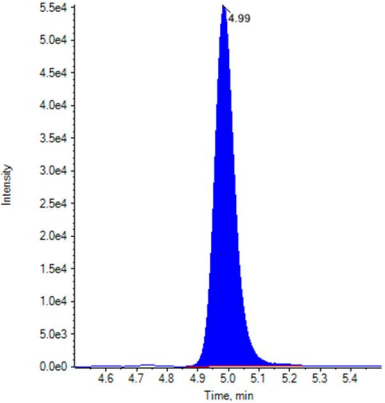
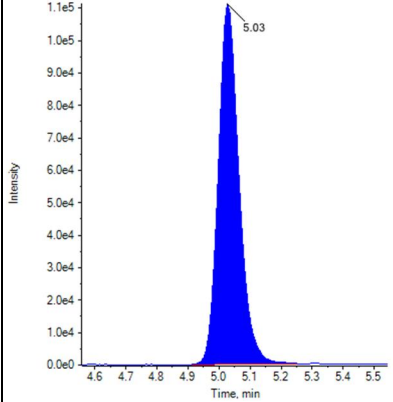
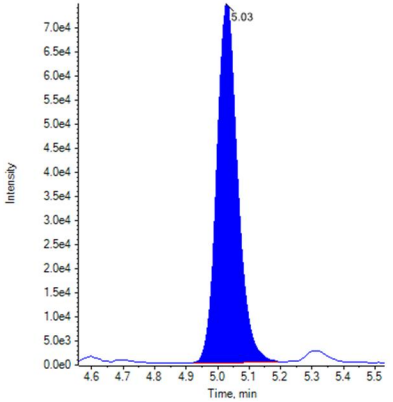
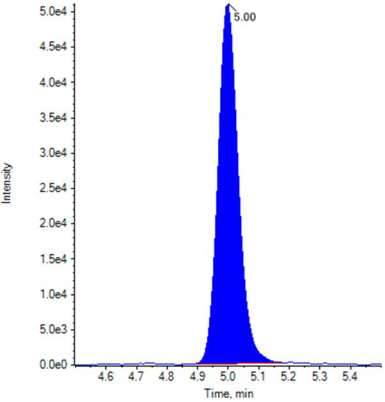
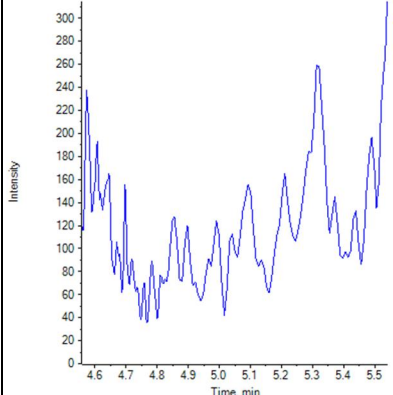
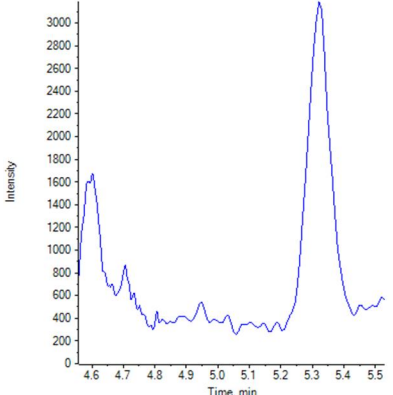
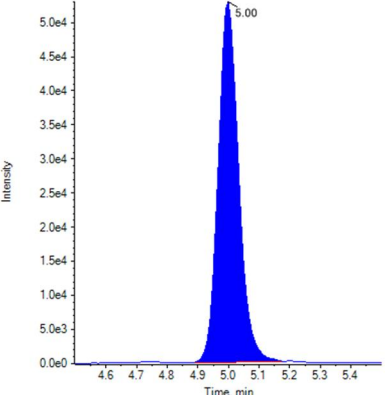
Identification Summary: THC-OH

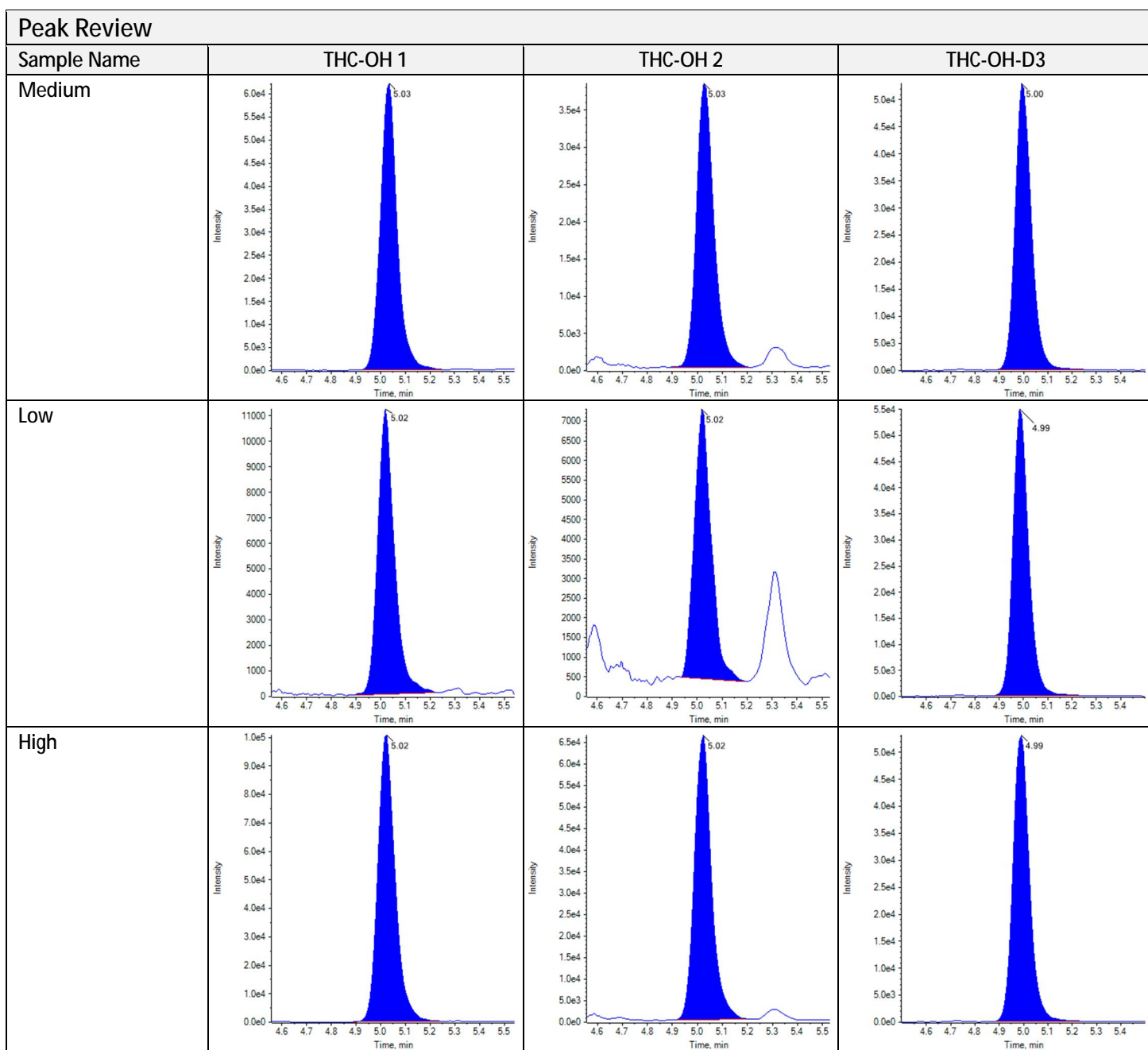
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
	THC-OH 2	N/A ()	
Medium	THC-OH 1 THC-OH 2	1.010 (Pass) 1.010 (Pass)	0.637 (Pass)
Low	THC-OH 1 THC-OH 2	1.010 (Pass) 1.010 (Pass)	0.619 (Pass)
High	THC-OH 1 THC-OH 2	1.010 (Pass) 1.010 (Pass)	0.644 (Pass)

Peak Review

Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3
Standard 1			
Standard 2			
Standard 3			

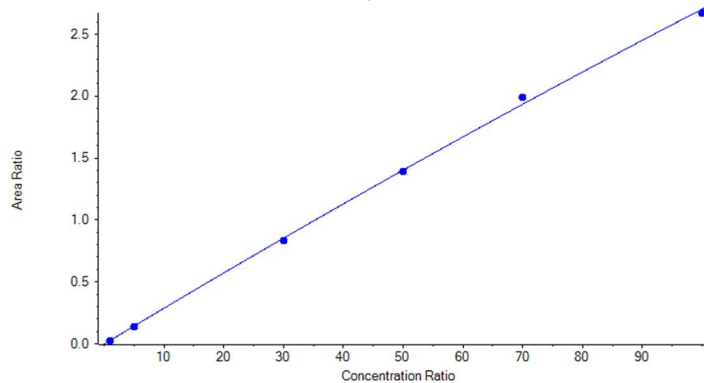
Calibration/Control Report - Quantitative Analytes

Peak Review			
Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3
Standard 4			
Standard 5			
Standard 6			
Negative			



Calibration Summary: $\Delta 9$ -THC

$$y = -2.08606e-5 x^2 + 0.02913 x + -0.00241 \quad (r = 0.99979) \quad (\text{weighting: } 1/x)$$



Analyte Transition Mass	
Internal Standard	$\Delta 9$ -THC-D3
I.S. Transition Mass	318.1 / 123.0
$\Delta 9$ -THC 1	315.1 / 193.1
$\Delta 9$ -THC 2	315.1 / 123.0
Relative Retention time: Expected (Acceptance Range)	
$\Delta 9$ -THC 1	1.004 (0.979-1.029)
$\Delta 9$ -THC 2	1.004 (0.979-1.029)
Ion Ratio: Expected (Acceptance Range)	
$\Delta 9$ -THC 2	0.694 (0.555-0.833)
$\Delta 9$ -THC comment	

Quantitative Summary: $\Delta 9$ -THC

Sample Name	Area Ratio	Actual Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
Standard 1	0.0270	1.00	1.026	102.63
Standard 2	0.1400	5.00	4.904	98.08
Standard 3	0.8350	30.00	29.369	97.90
Standard 4	1.3950	50.00	49.733	99.47
Standard 5	1.9940	70.00	72.269	103.24
Standard 6	2.6700	100.00	98.698	98.70
Negative	N/A	0.00	N/A	N/A
Medium	1.1490	40.00	40.725	101.81
Low	0.0860	3.00	3.054	101.79
High	2.4060	80.00	88.237	110.30

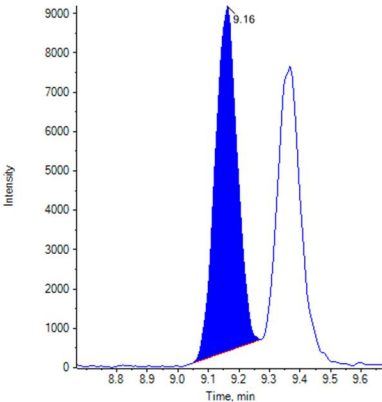
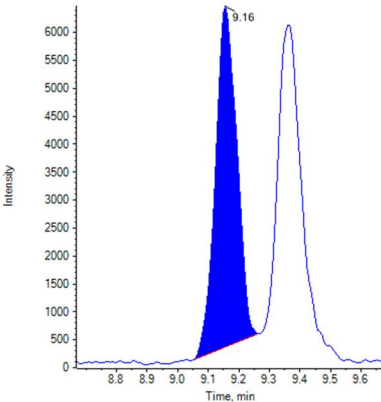
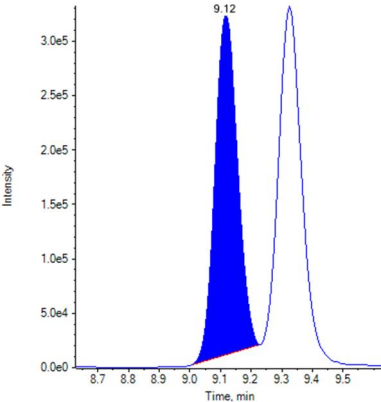
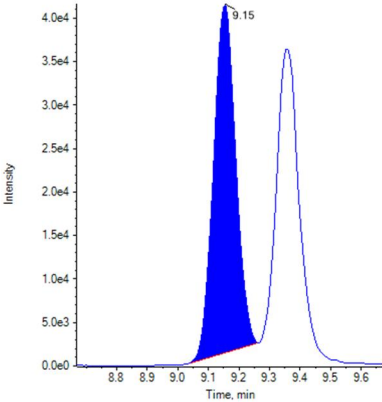
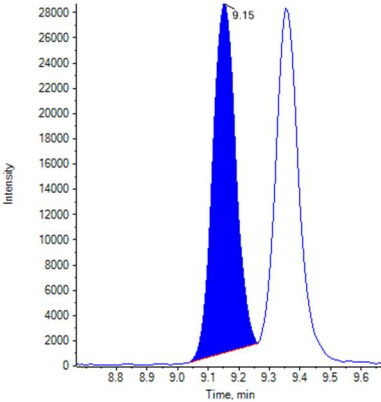
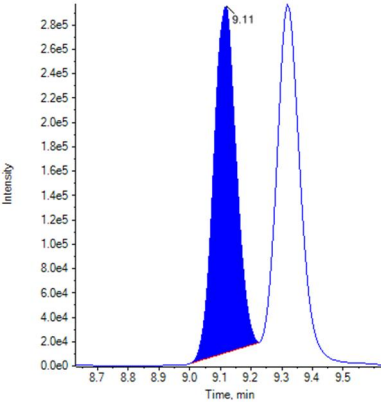
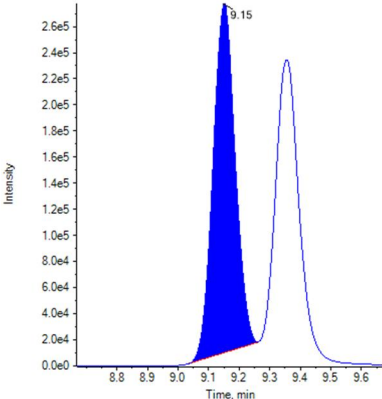
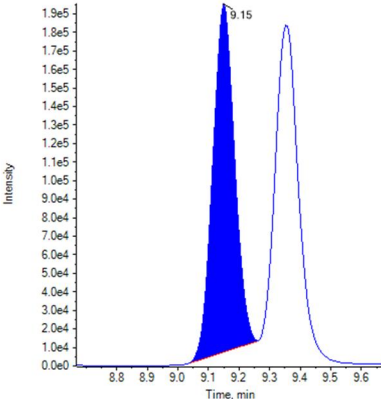
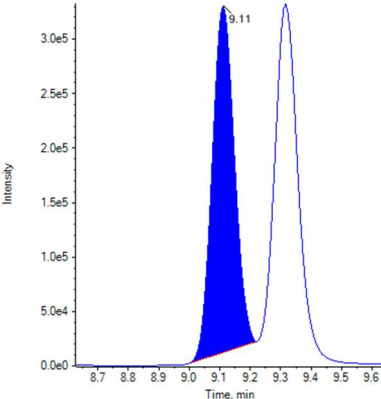
Identification Summary: $\Delta 9$ -THC

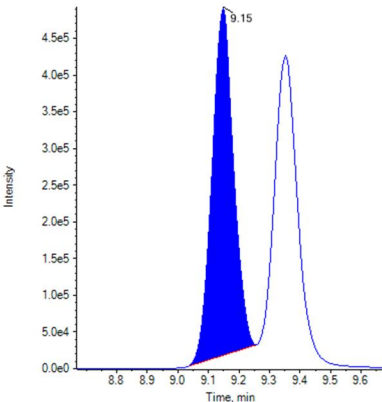
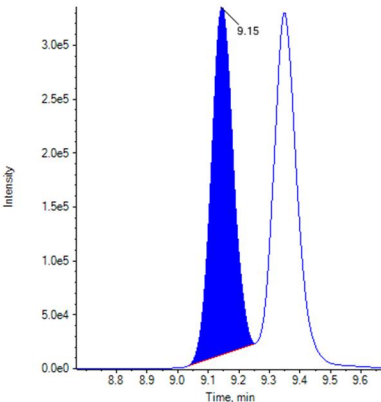
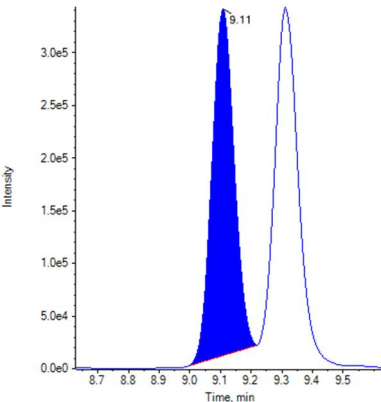
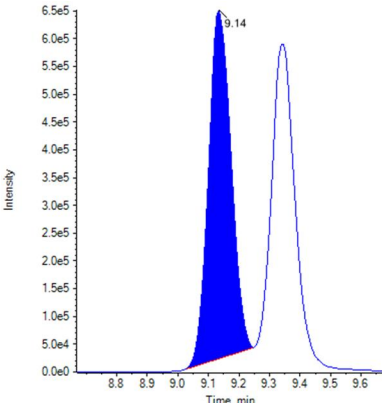
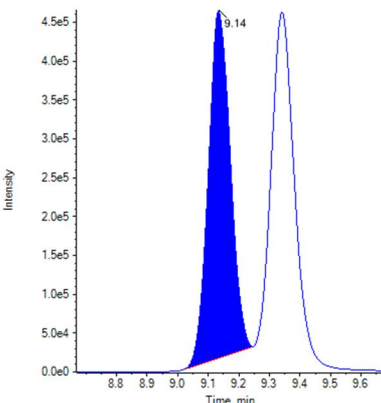
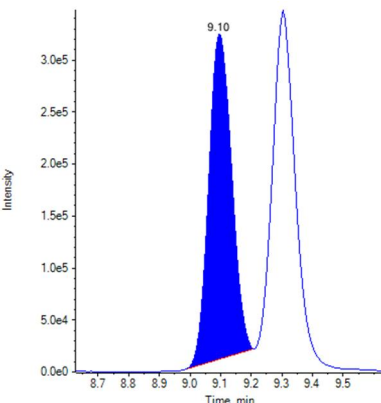
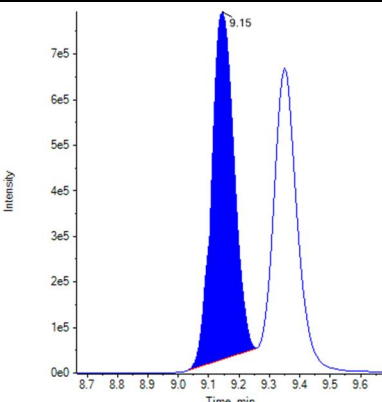
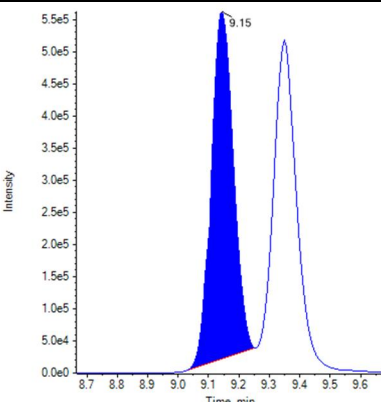
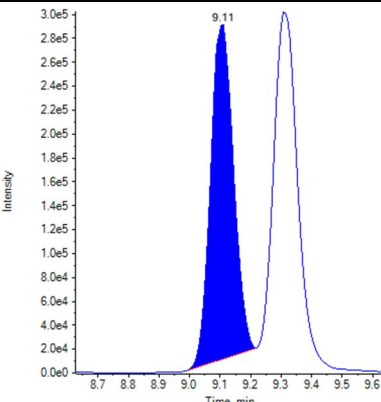
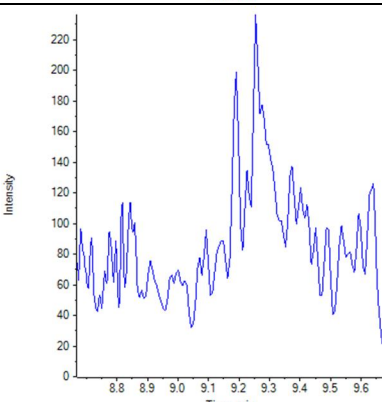
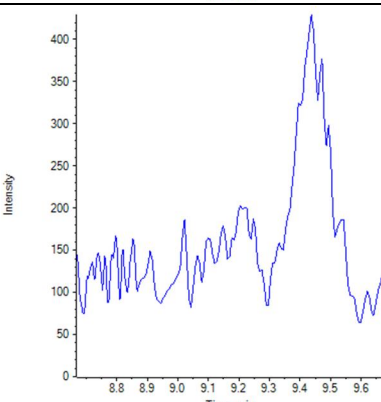
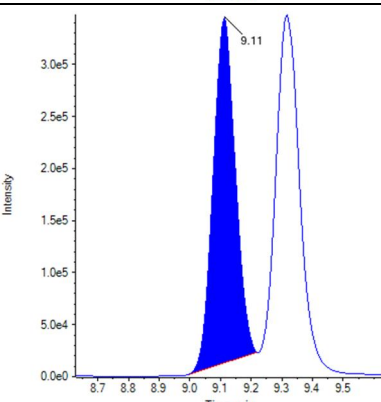
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 1	$\Delta 9$ -THC 1	1.000 (Pass)	0.676 (Pass)
	$\Delta 9$ -THC 2	1.000 (Pass)	
Standard 2	$\Delta 9$ -THC 1	1.000 (Pass)	0.711 (Pass)
	$\Delta 9$ -THC 2	1.000 (Pass)	
Standard 3	$\Delta 9$ -THC 1	1.000 (Pass)	0.690 (Pass)
	$\Delta 9$ -THC 2	1.000 (Pass)	
Standard 4	$\Delta 9$ -THC 1	1.000 (Pass)	0.695 (Pass)
	$\Delta 9$ -THC 2	1.000 (Pass)	
Standard 5	$\Delta 9$ -THC 1	1.000 (Pass)	0.692 (Pass)
	$\Delta 9$ -THC 2	1.000 (Pass)	
Standard 6	$\Delta 9$ -THC 1	1.000 (Pass)	0.699 (Pass)
	$\Delta 9$ -THC 2	1.000 (Pass)	
Negative	$\Delta 9$ -THC 1	N/A ()	N/A ()

Identification Summary: Δ^9 -THC

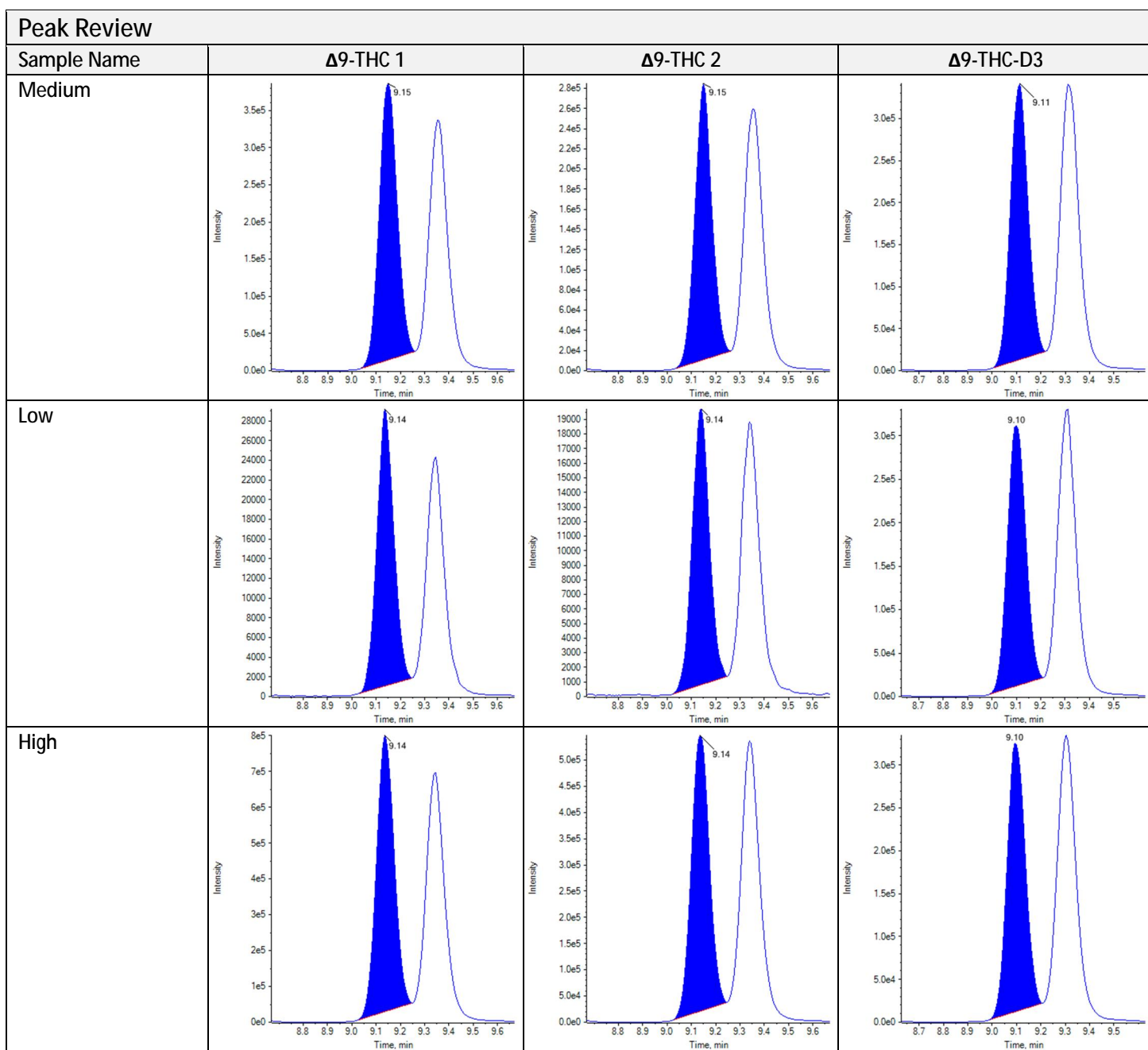
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
	Δ^9 -THC 2	N/A ()	
Medium	Δ^9 -THC 1 Δ^9 -THC 2	1.000 (Pass) 1.000 (Pass)	0.694 (Pass)
Low	Δ^9 -THC 1 Δ^9 -THC 2	1.000 (Pass) 1.000 (Pass)	0.687 (Pass)
High	Δ^9 -THC 1 Δ^9 -THC 2	1.000 (Pass) 1.000 (Pass)	0.693 (Pass)

Peak Review

Sample Name	Δ^9 -THC 1	Δ^9 -THC 2	Δ^9 -THC-D3
Standard 1			
Standard 2			
Standard 3			

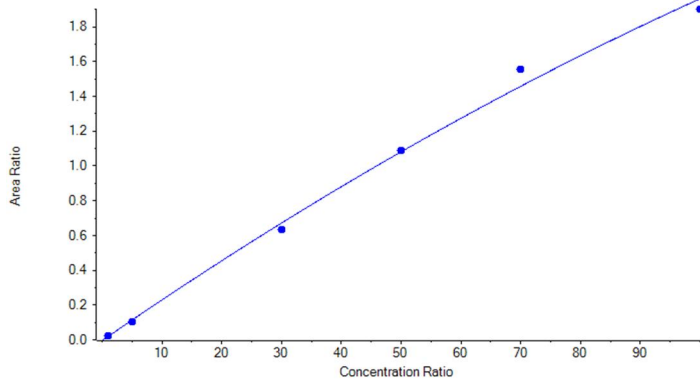
Peak Review			
Sample Name	$\Delta 9$ -THC 1	$\Delta 9$ -THC 2	$\Delta 9$ -THC-D3
Standard 4			
Standard 5			
Standard 6			
Negative			

Calibration/Control Report - Quantitative Analytes



Calibration Summary: $\Delta 8$ -THC

$$y = -4.10437e-5 x^2 + 0.02377 x + -0.00465 \quad (r = 0.99875) \quad (\text{weighting: } 1/x)$$



Analyte Transition Mass	
Internal Standard	$\Delta 8$ -THC-D3
I.S. Transition Mass	318.1 / 123.0
$\Delta 8$ -THC 1	315.1 / 193.1
$\Delta 8$ -THC 2	315.1 / 123.1
Relative Retention time: Expected (Acceptance Range)	
$\Delta 8$ -THC 1	1.004 (0.979-1.029)
$\Delta 8$ -THC 2	1.004 (0.979-1.029)
Ion Ratio: Expected (Acceptance Range)	
$\Delta 8$ -THC 2	0.737 (0.590-0.884)
$\Delta 8$ -THC comment	

Quantitative Summary: $\Delta 8$ -THC

Sample Name	Area Ratio	Actual Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
Standard 1	0.0210	1.00	1.074	107.39
Standard 2	0.1060	5.00	4.711	94.23
Standard 3	0.6320	30.00	28.133	93.78
Standard 4	1.0870	50.00	50.268	100.54
Standard 5	1.5580	70.00	75.619	108.03
Standard 6	1.9020	100.00	96.163	96.16
Negative	N/A	0.00	N/A	N/A
Medium	0.9000	40.00	40.948	102.37
Low	0.0640	3.00	2.915	97.16
High	1.8120	80.00	90.604	113.26

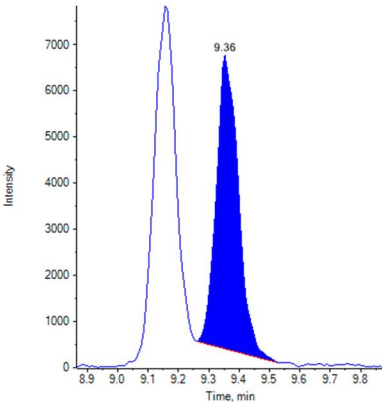
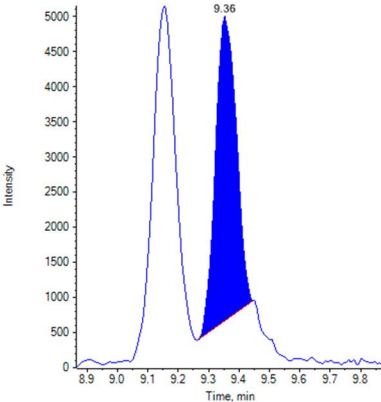
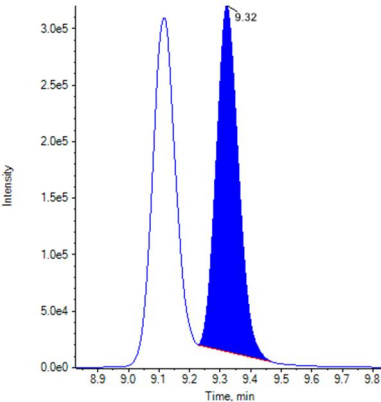
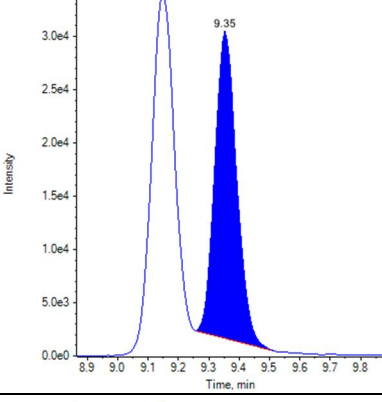
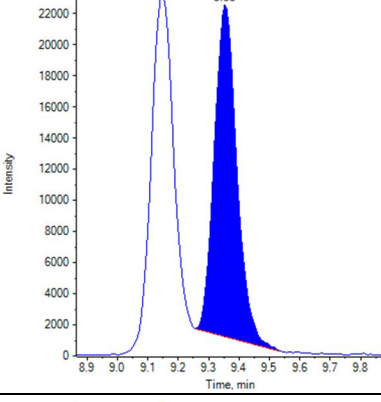
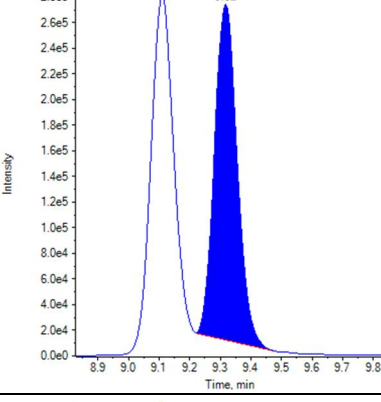
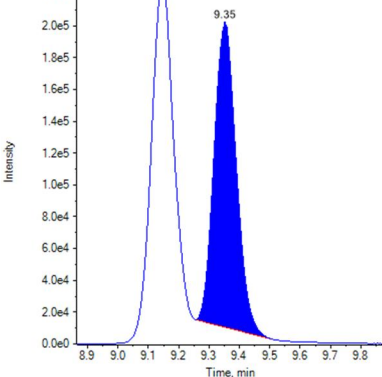
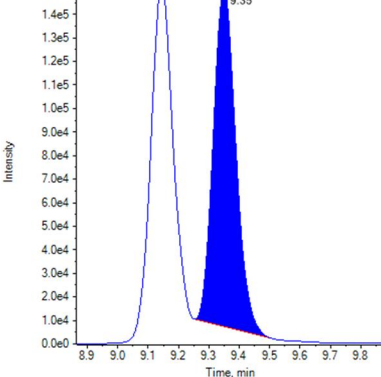
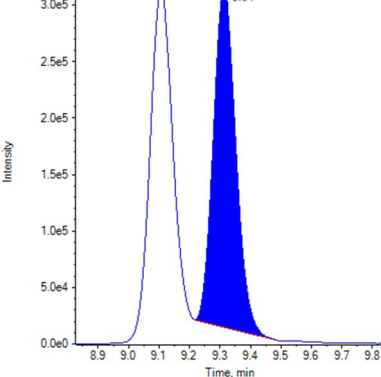
Identification Summary: $\Delta 8$ -THC

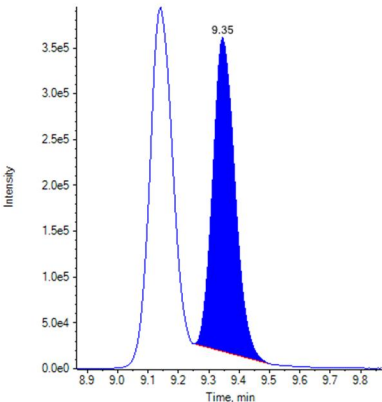
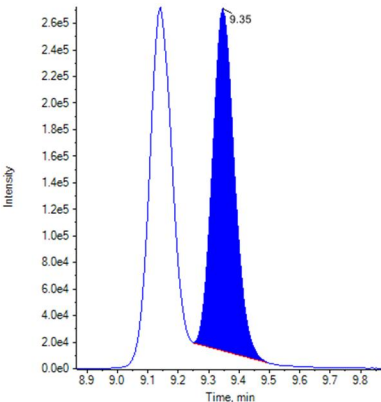
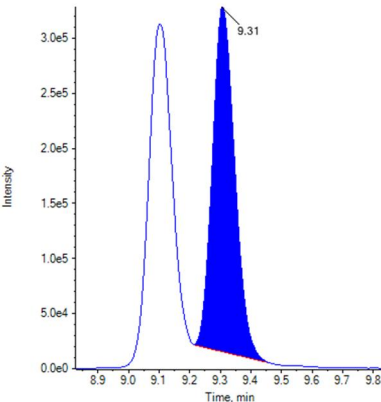
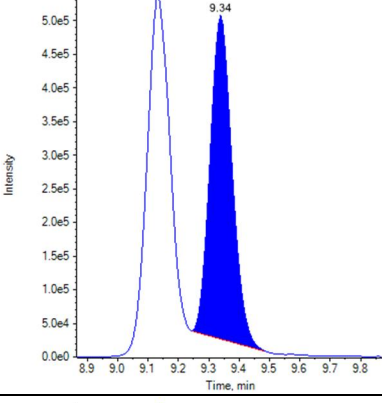
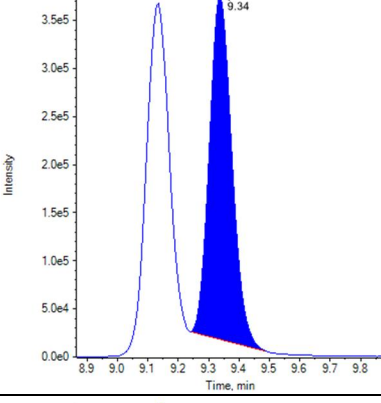
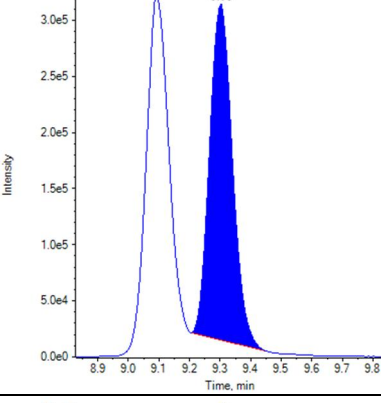
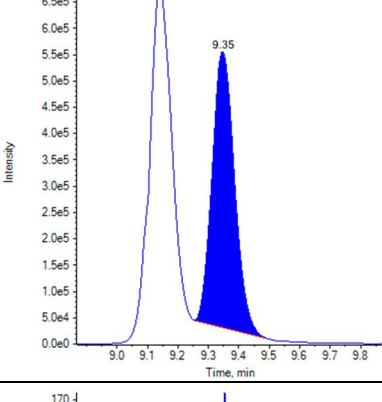
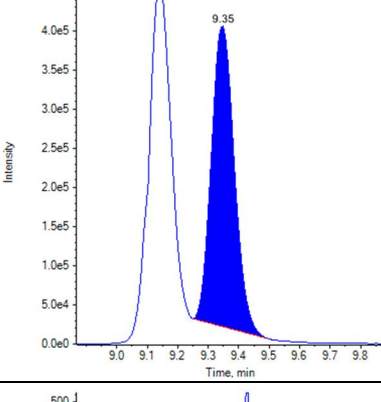
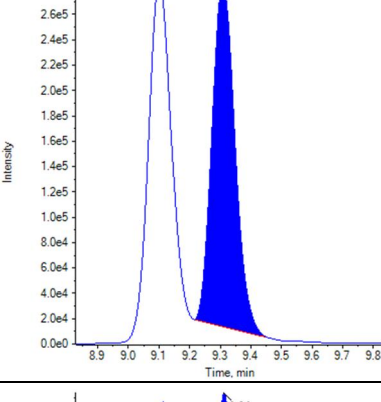
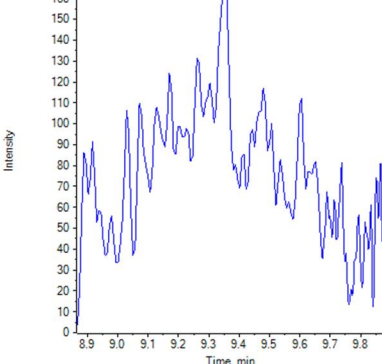
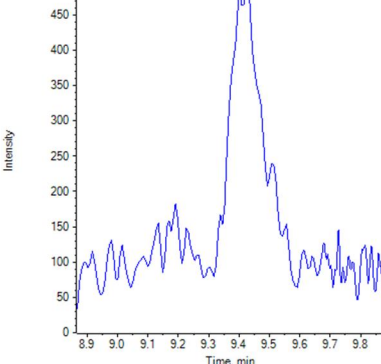
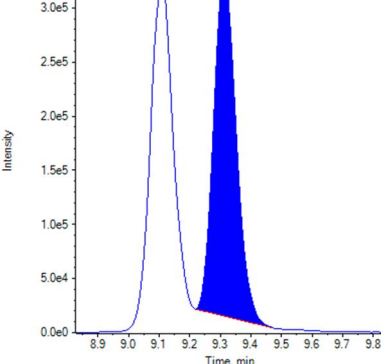
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 1	$\Delta 8$ -THC 1	1.000 (Pass)	0.643 (Pass)
	$\Delta 8$ -THC 2	1.000 (Pass)	
Standard 2	$\Delta 8$ -THC 1	1.000 (Pass)	0.761 (Pass)
	$\Delta 8$ -THC 2	1.000 (Pass)	
Standard 3	$\Delta 8$ -THC 1	1.000 (Pass)	0.762 (Pass)
	$\Delta 8$ -THC 2	1.000 (Pass)	
Standard 4	$\Delta 8$ -THC 1	1.000 (Pass)	0.747 (Pass)
	$\Delta 8$ -THC 2	1.000 (Pass)	
Standard 5	$\Delta 8$ -THC 1	1.000 (Pass)	0.759 (Pass)
	$\Delta 8$ -THC 2	1.000 (Pass)	
Standard 6	$\Delta 8$ -THC 1	1.000 (Pass)	0.747 (Pass)
	$\Delta 8$ -THC 2	1.000 (Pass)	
Negative	$\Delta 8$ -THC 1	N/A ()	N/A ()

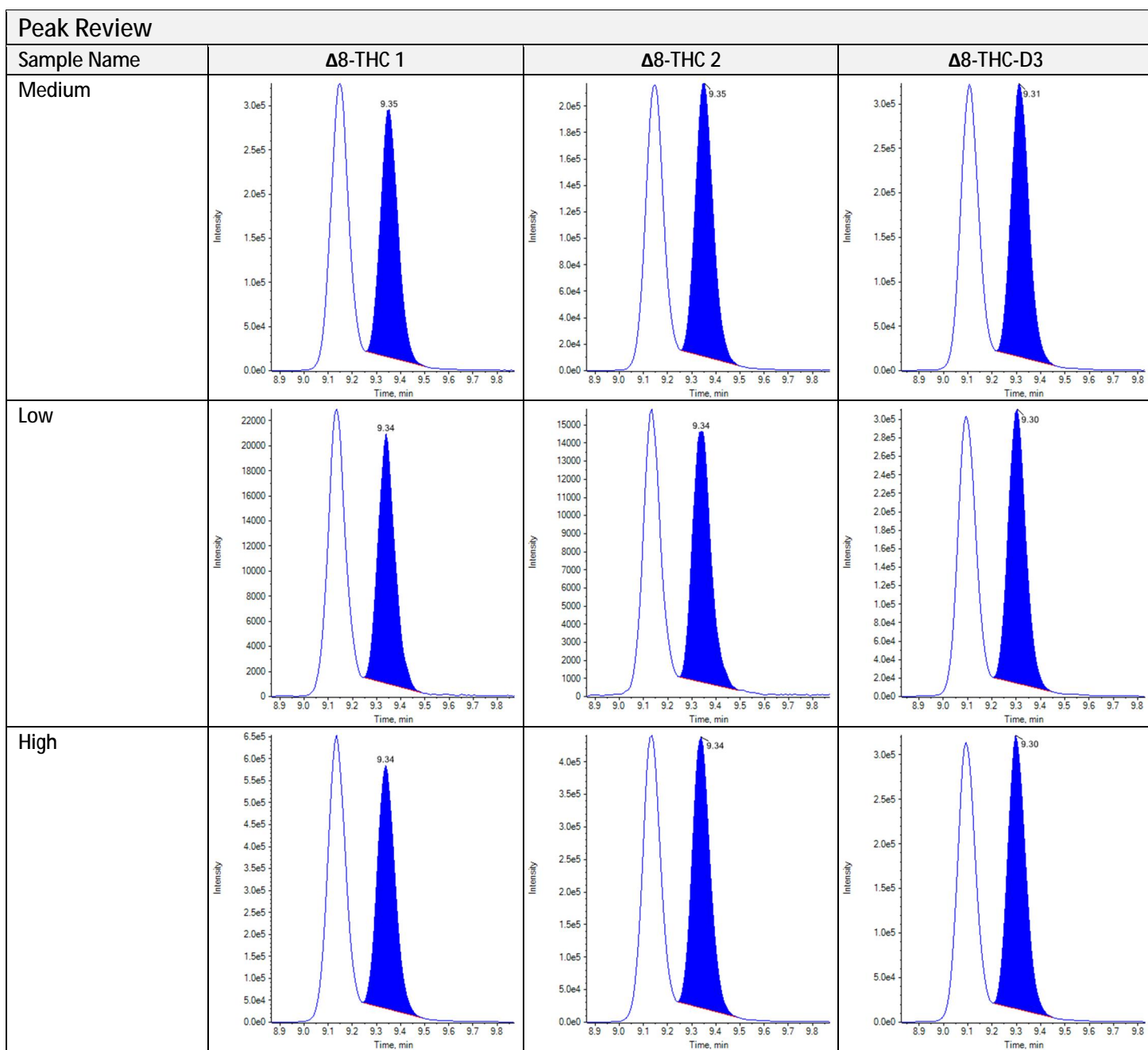
Identification Summary: $\Delta 8$ -THC

Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
	$\Delta 8$ -THC 2	N/A ()	
Medium	$\Delta 8$ -THC 1 $\Delta 8$ -THC 2	1.000 (Pass) 1.000 (Pass)	0.749 (Pass)
Low	$\Delta 8$ -THC 1 $\Delta 8$ -THC 2	1.000 (Pass) 1.000 (Pass)	0.765 (Pass)
High	$\Delta 8$ -THC 1 $\Delta 8$ -THC 2	1.000 (Pass) 1.000 (Pass)	0.757 (Pass)

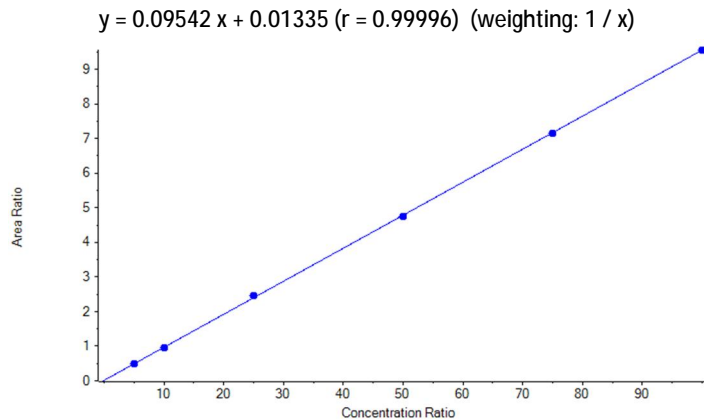
Peak Review

Sample Name	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2	$\Delta 8$ -THC-D3
Standard 1			
Standard 2			
Standard 3			

Peak Review			
Sample Name	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2	$\Delta 8$ -THC-D3
Standard 4			
Standard 5			
Standard 6			
Negative			



Calibration Summary: THC-COOH



Analyte Transition Mass	
Internal Standard	THC-COOH-D3
I.S. Transition Mass	346.0 / 194.0
THC-COOH 1	343.0 / 299.1
THC-COOH 2	343.0 / 191.0
Relative Retention time: Expected (Acceptance Range)	
THC-COOH 1	1.007 (0.982-1.032)
THC-COOH 2	1.007 (0.982-1.032)
Ion Ratio: Expected (Acceptance Range)	
THC-COOH 2	0.182 (0.146-0.218)
THC-COOH comment	

Quantitative Summary: THC-COOH

Sample Name	Area Ratio	Actual Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
Standard 1	0.4840	5.00	4.929	98.57
Standard 2	0.9680	10.00	10.007	100.07
Standard 3	2.4510	25.00	25.544	102.18
Standard 4	4.7570	50.00	49.710	99.42
Standard 5	7.1550	75.00	74.840	99.79
Standard 6	9.5530	100.00	99.969	99.97
Negative	N/A	0.00	N/A	N/A
Medium	4.0690	40.00	42.508	106.27
Low	0.7730	8.00	7.962	99.52
High	7.5300	80.00	78.769	98.46

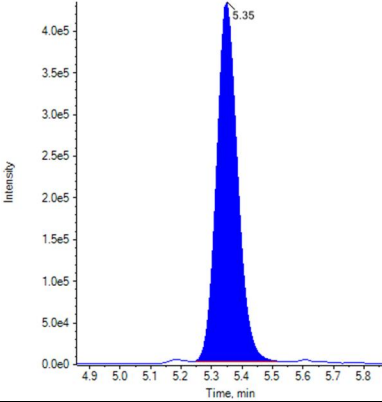
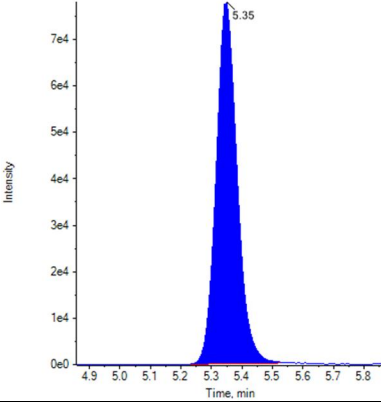
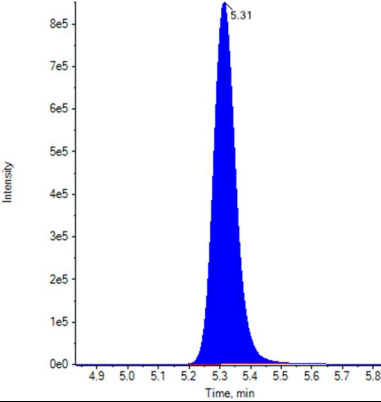
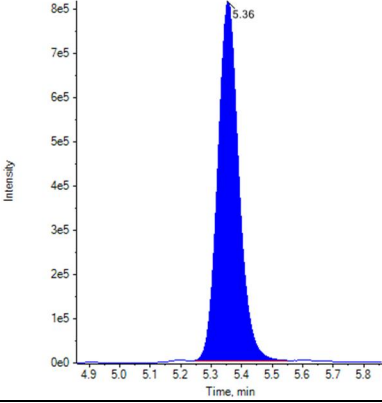
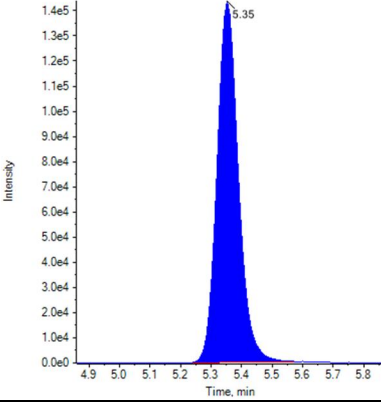
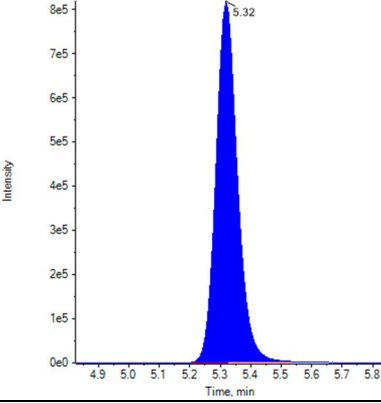
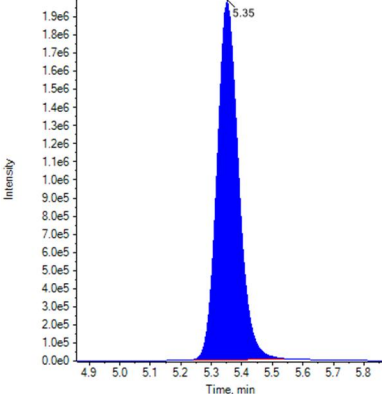
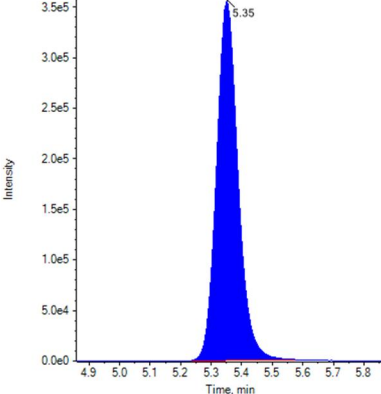
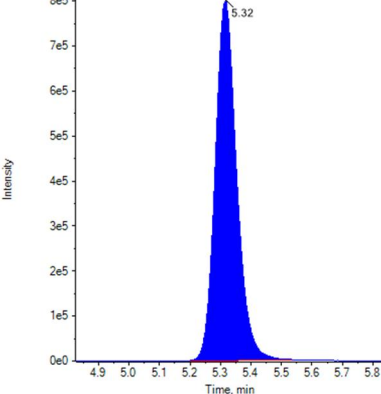
Identification Summary: THC-COOH

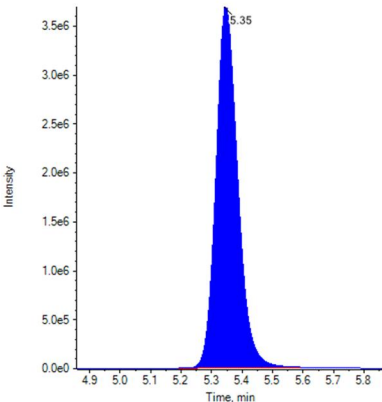
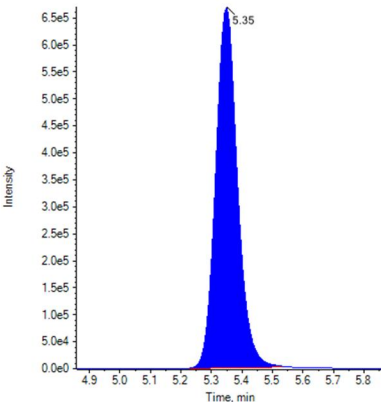
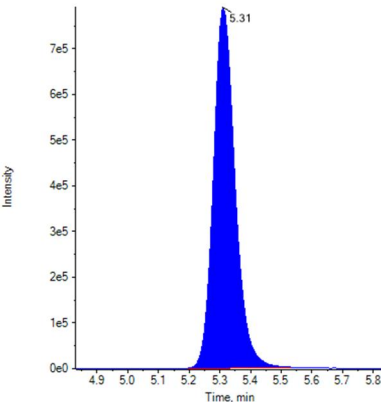
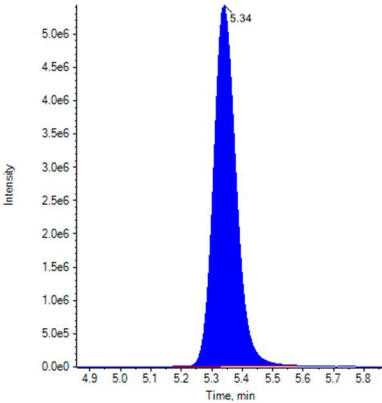
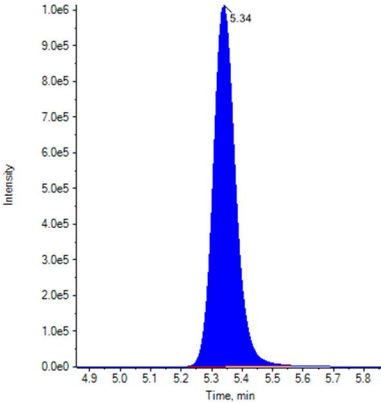
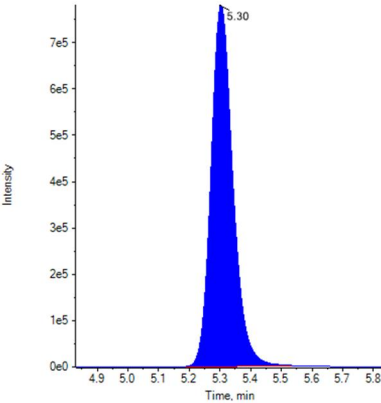
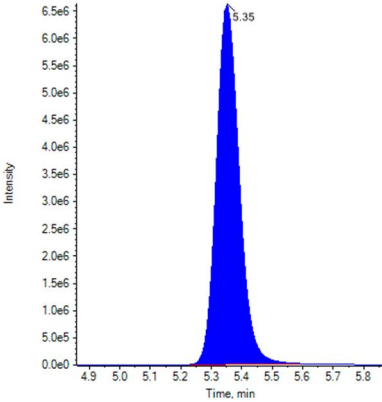
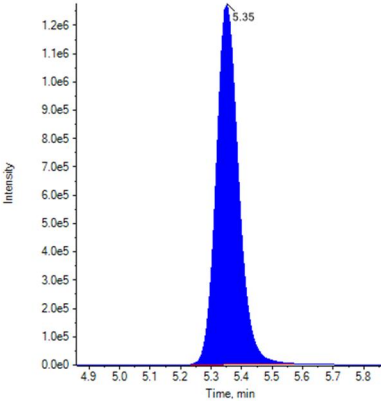
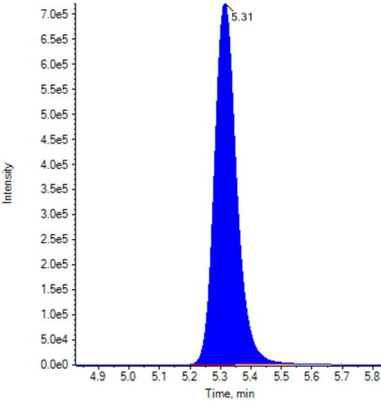
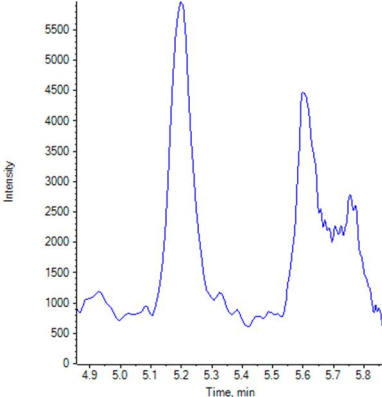
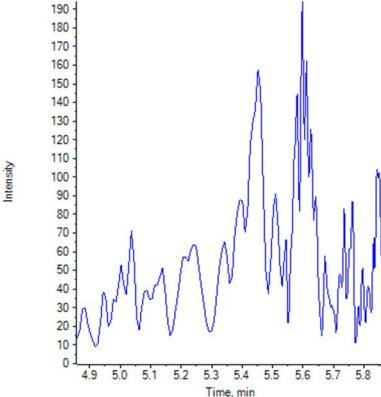
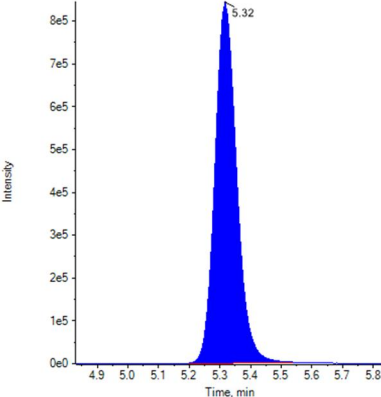
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 1	THC-COOH 1	1.010 (Pass)	0.181 (Pass)
	THC-COOH 2	1.010 (Pass)	
Standard 2	THC-COOH 1	1.010 (Pass)	0.181 (Pass)
	THC-COOH 2	1.010 (Pass)	
Standard 3	THC-COOH 1	1.010 (Pass)	0.181 (Pass)
	THC-COOH 2	1.010 (Pass)	
Standard 4	THC-COOH 1	1.010 (Pass)	0.180 (Pass)
	THC-COOH 2	1.010 (Pass)	
Standard 5	THC-COOH 1	1.010 (Pass)	0.184 (Pass)
	THC-COOH 2	1.010 (Pass)	
Standard 6	THC-COOH 1	1.010 (Pass)	0.186 (Pass)
	THC-COOH 2	1.010 (Pass)	

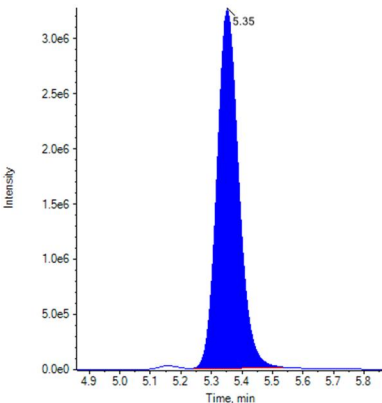
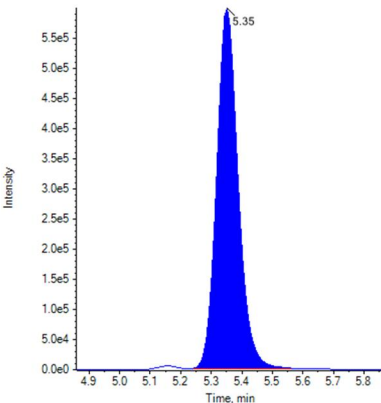
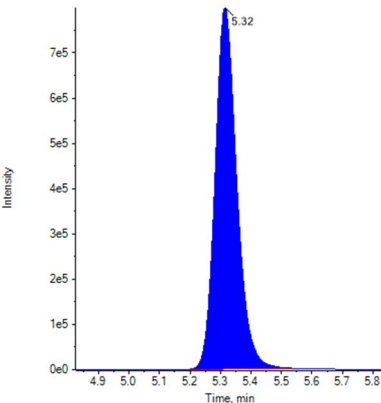
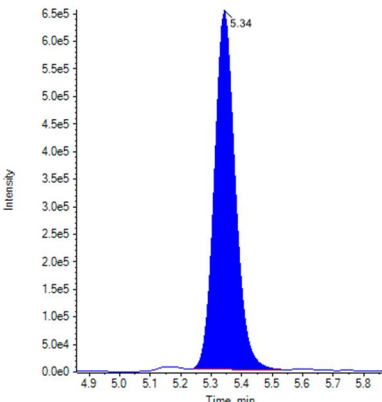
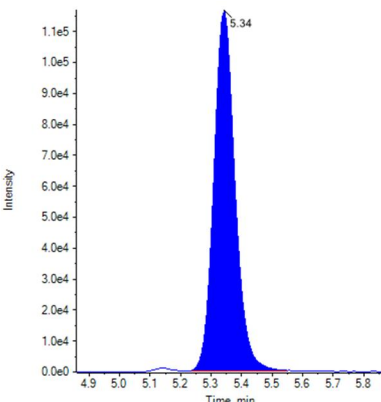
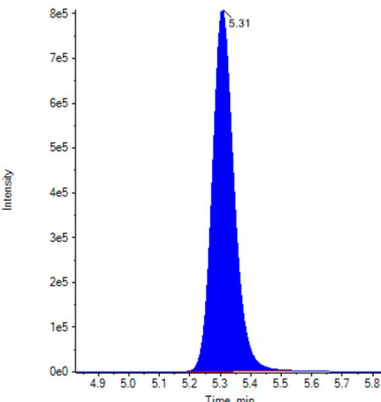
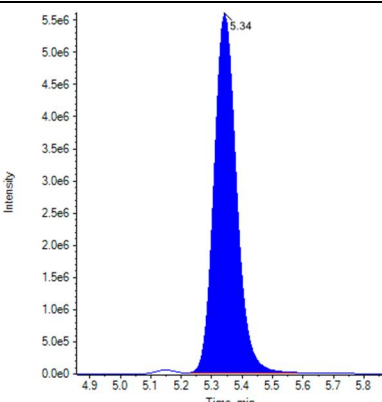
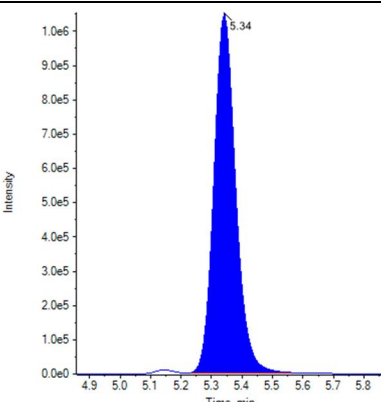
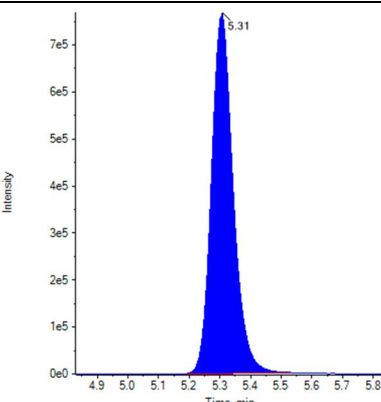
Identification Summary: THC-COOH

Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Negative	THC-COOH 1	N/A ()	N/A ()
	THC-COOH 2	N/A ()	
Medium	THC-COOH 1	1.010 (Pass)	0.182 (Pass)
	THC-COOH 2	1.010 (Pass)	
Low	THC-COOH 1	1.010 (Pass)	0.182 (Pass)
	THC-COOH 2	1.010 (Pass)	
High	THC-COOH 1	1.010 (Pass)	0.183 (Pass)
	THC-COOH 2	1.010 (Pass)	

Peak Review

Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3
Standard 1			
Standard 2			
Standard 3			

Peak Review			
Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3
Standard 4			
Standard 5			
Standard 6			
Negative			

Peak Review			
Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3
Medium			
Low			
High			



Sample Summary

Sample Name	Standard 1
Acquisition Date/Time	2022-09-28T17:11:00
Acquisition Method	THC.dam
Batch Name	20220928SK Wisconsin.dab
Results Table	20220928 SK Wisconsin
Sample Type	Standard
File Name	20220928 SK Wisconsin.wiff
Position	1
Sample Comment	

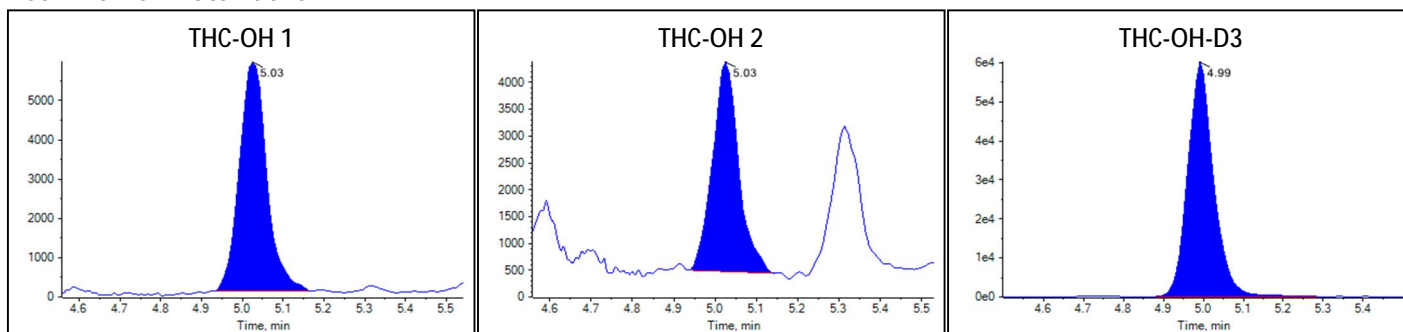
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.102	1.032		
Δ^9 -THC	0.027	1.026		
Δ^8 -THC	0.021	1.074		
THC-COOH	0.484	4.929		

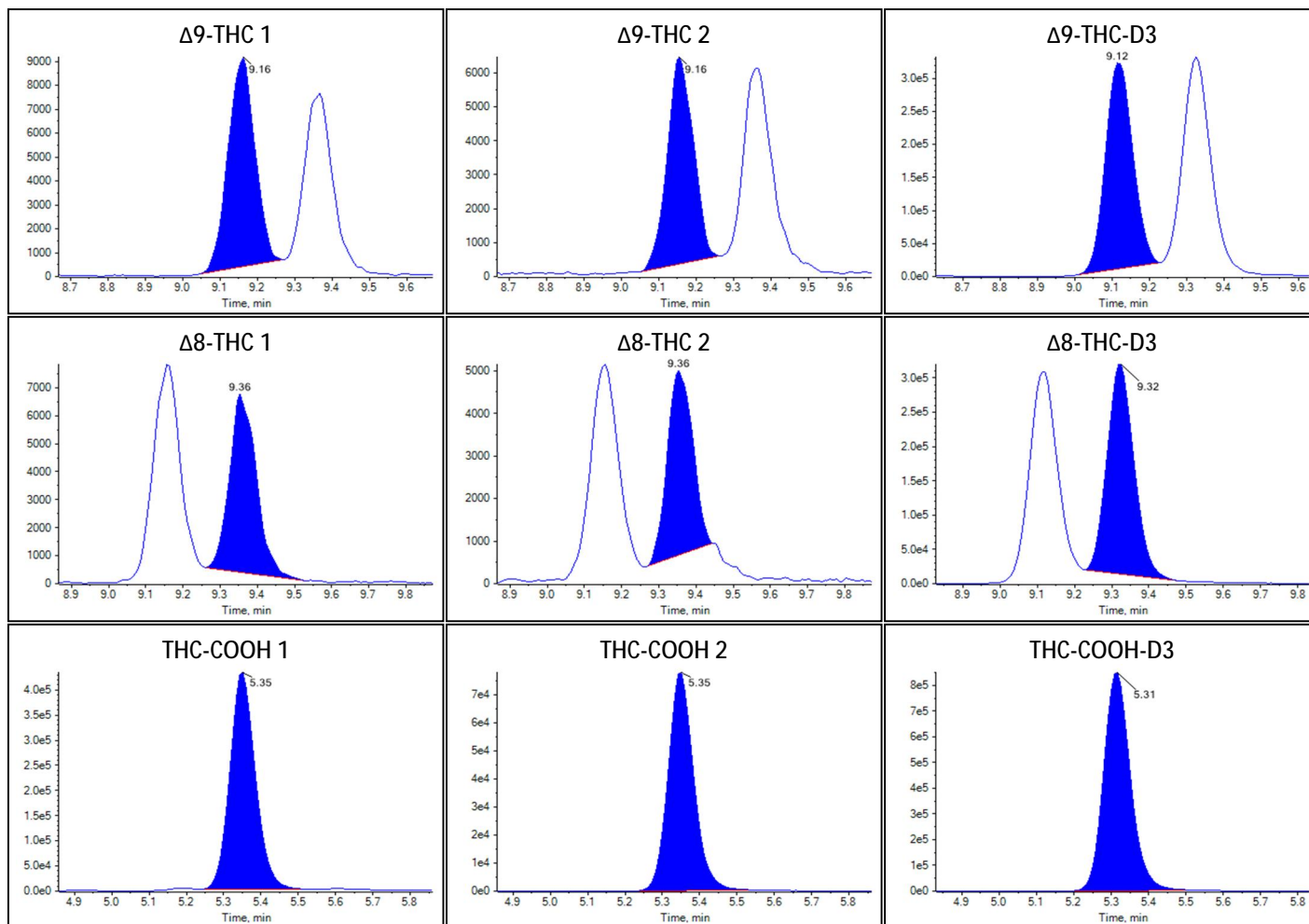
Identification Summary: Standard 1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.632(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.676(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.643(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.181(Pass)

Peak Review: Standard 1



Peak Review: Standard 1





Sample Summary

Sample Name	Standard 2
Acquisition Date/Time	2022-09-28T17:25:04
Acquisition Method	THC.dam
Batch Name	20220928SK Wisconsin.dab
Results Table	20220928 SK Wisconsin
Sample Type	Standard
File Name	20220928 SK Wisconsin.wiff
Position	2
Sample Comment	

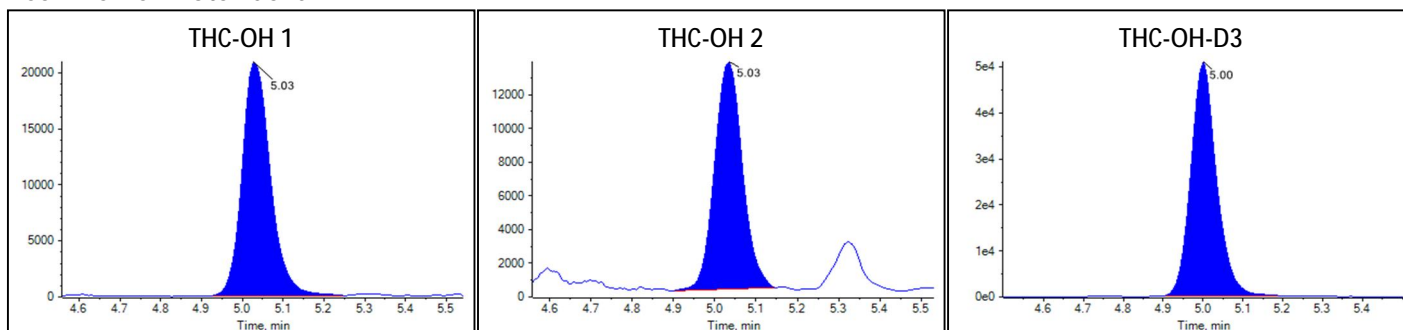
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.444	4.003		
Δ^9 -THC	0.140	4.904		
Δ^8 -THC	0.106	4.711		
THC-COOH	0.968	10.007		

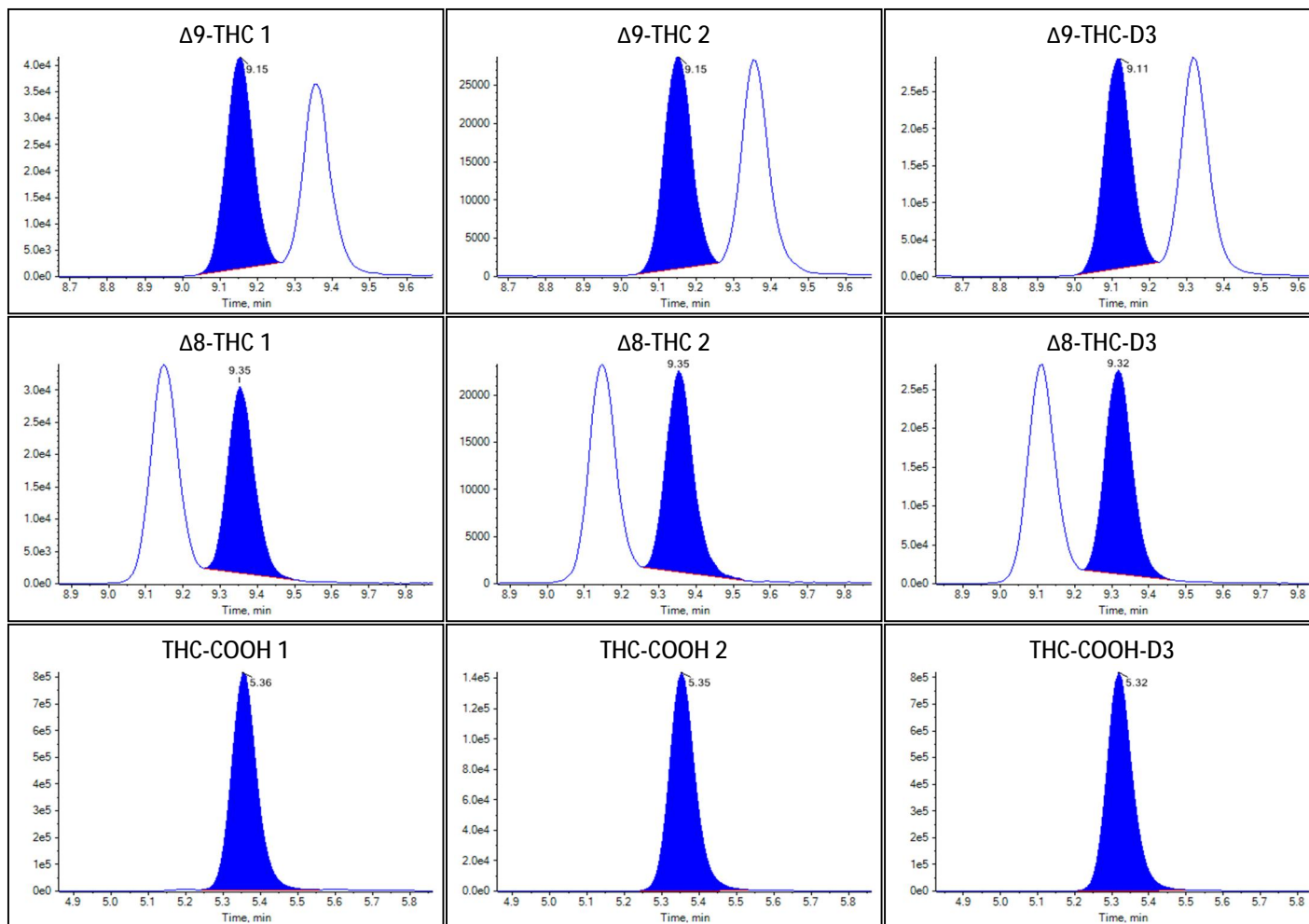
Identification Summary: Standard 2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.628(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.711(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.761(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.181(Pass)

Peak Review: Standard 2



Peak Review: Standard 2





Sample Summary

Sample Name	Standard 3
Acquisition Date/Time	2022-09-28T17:39:09
Acquisition Method	THC.dam
Batch Name	20220928SK Wisconsin.dab
Results Table	20220928 SK Wisconsin
Sample Type	Standard
File Name	20220928 SK Wisconsin.wiff
Position	3
Sample Comment	

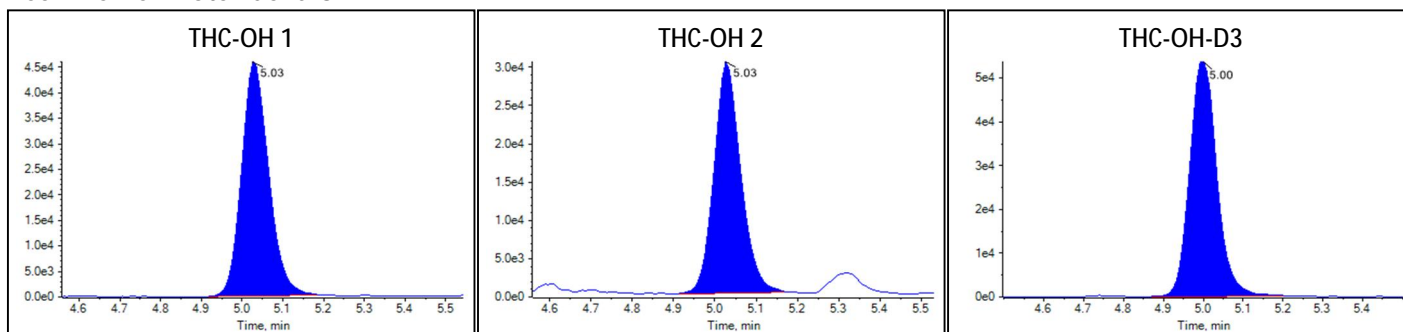
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.826	7.323		
Δ^9 -THC	0.835	29.369		
Δ^8 -THC	0.632	28.133		
THC-COOH	2.451	25.544		

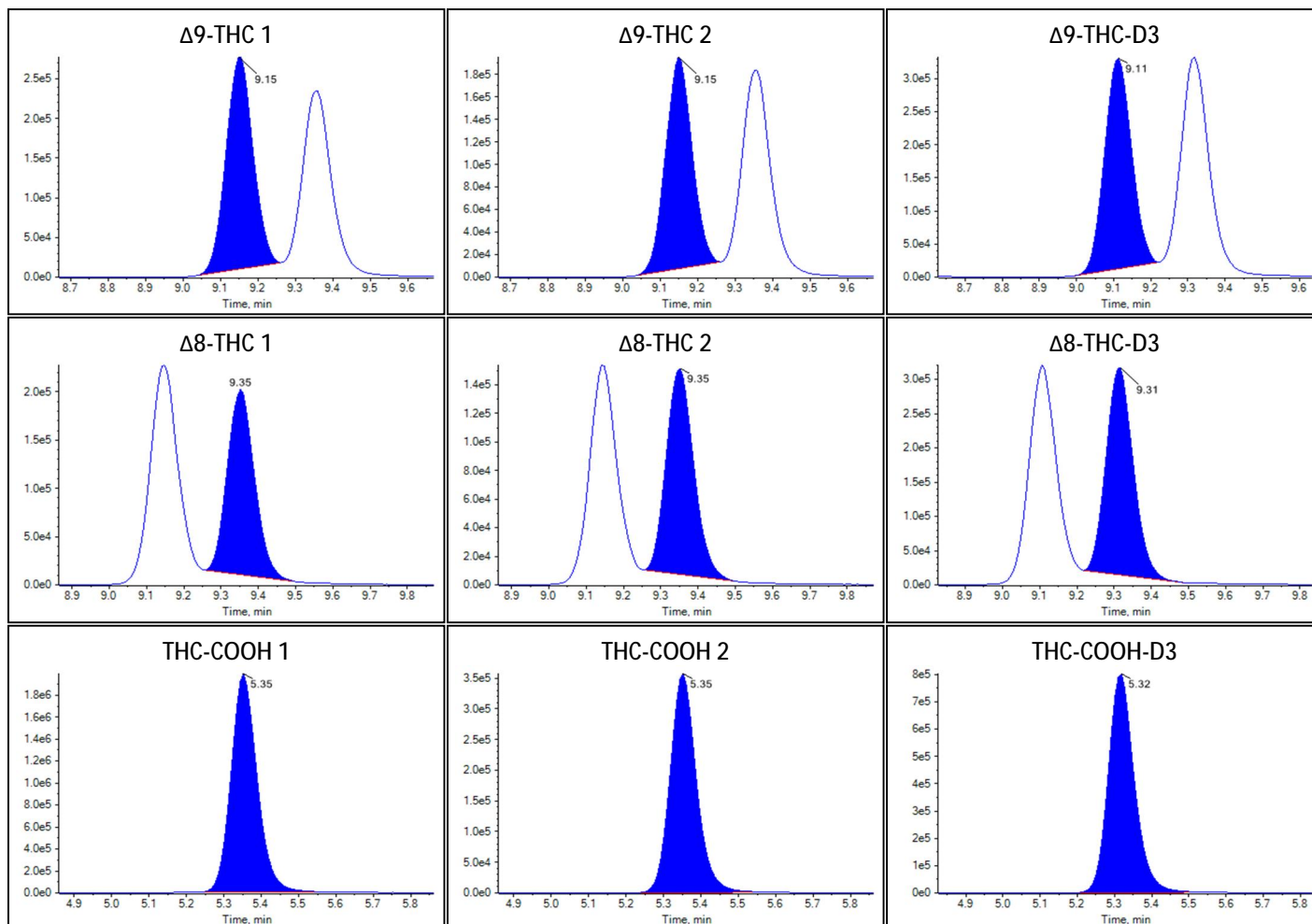
Identification Summary: Standard 3

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.646(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.690(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.762(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.181(Pass)

Peak Review: Standard 3



Peak Review: Standard 3





Sample Summary

Sample Name	Standard 4
Acquisition Date/Time	2022-09-28T17:53:15
Acquisition Method	THC.dam
Batch Name	20220928SK Wisconsin.dab
Results Table	20220928 SK Wisconsin
Sample Type	Standard
File Name	20220928 SK Wisconsin.wiff
Position	4
Sample Comment	

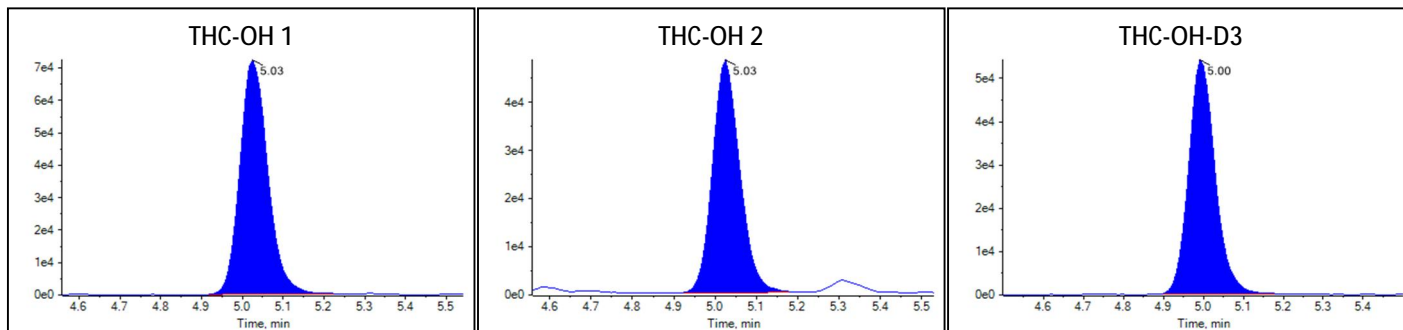
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.379	12.124		
Δ^9 -THC	1.395	49.733		
Δ^8 -THC	1.087	50.268		
THC-COOH	4.757	49.710		

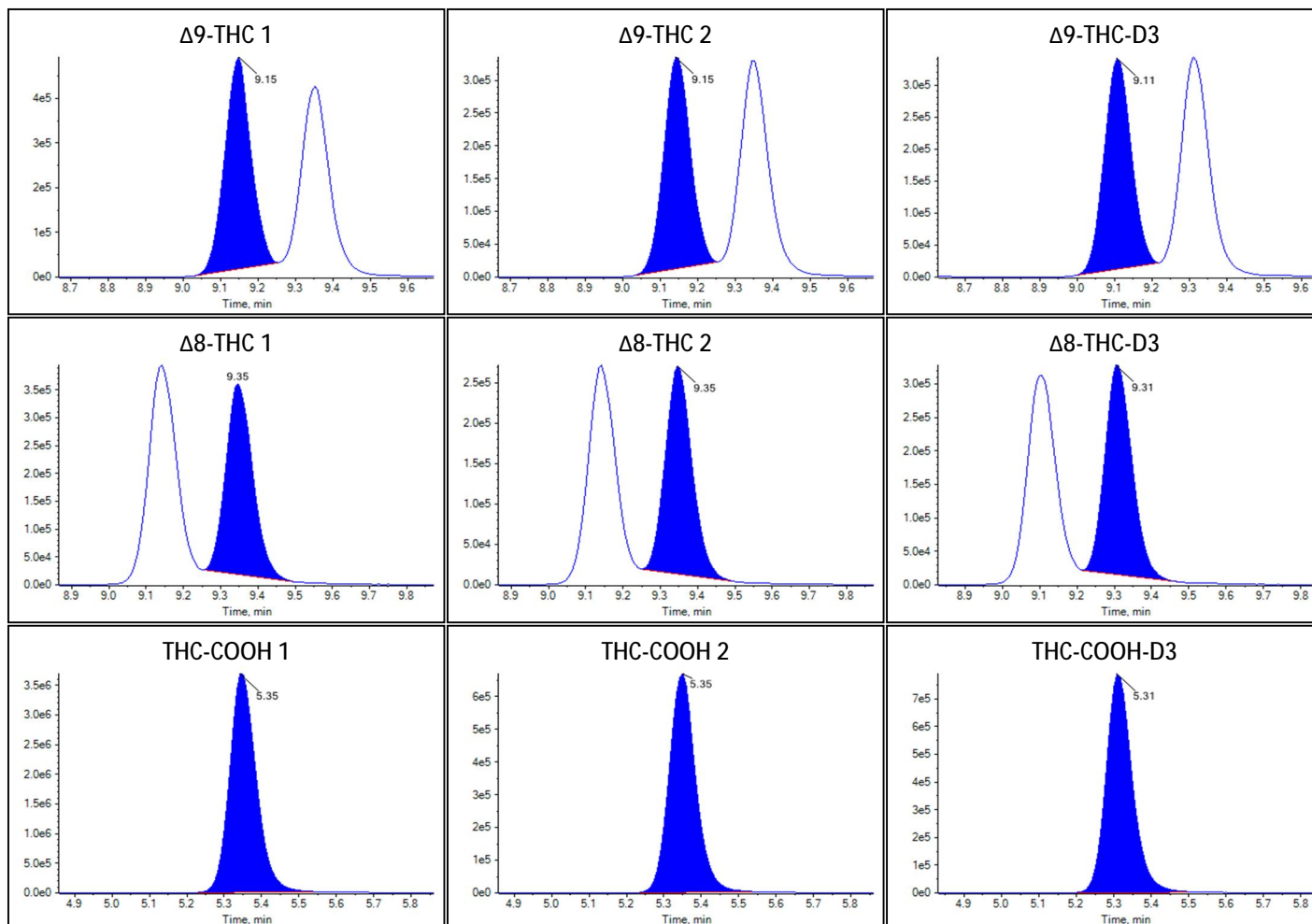
Identification Summary: Standard 4

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.646(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.695(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.747(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.180(Pass)

Peak Review: Standard 4



Peak Review: Standard 4





Sample Summary

Sample Name	Standard 5
Acquisition Date/Time	2022-09-28T18:07:20
Acquisition Method	THC.dam
Batch Name	20220928SK Wisconsin.dab
Results Table	20220928 SK Wisconsin
Sample Type	Standard
File Name	20220928 SK Wisconsin.wiff
Position	5
Sample Comment	

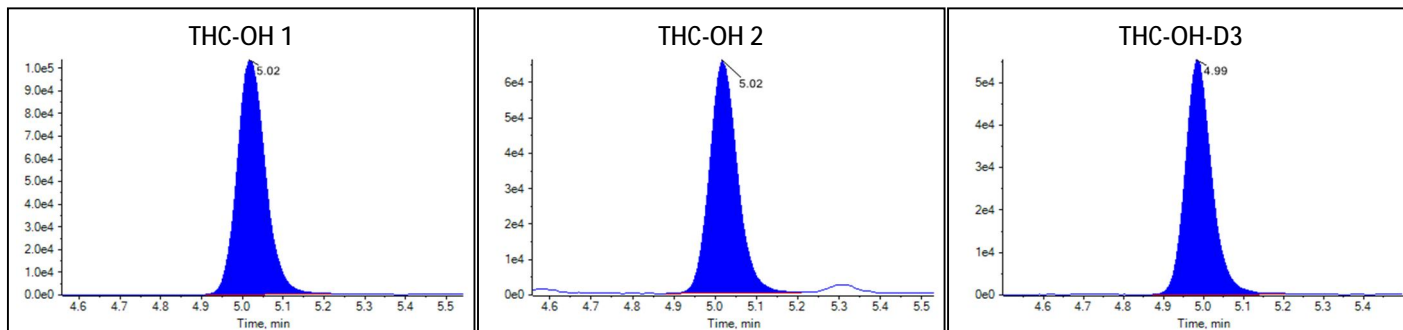
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.970	17.255		
Δ^9 -THC	1.994	72.269		
Δ^8 -THC	1.558	75.619		
THC-COOH	7.155	74.840		

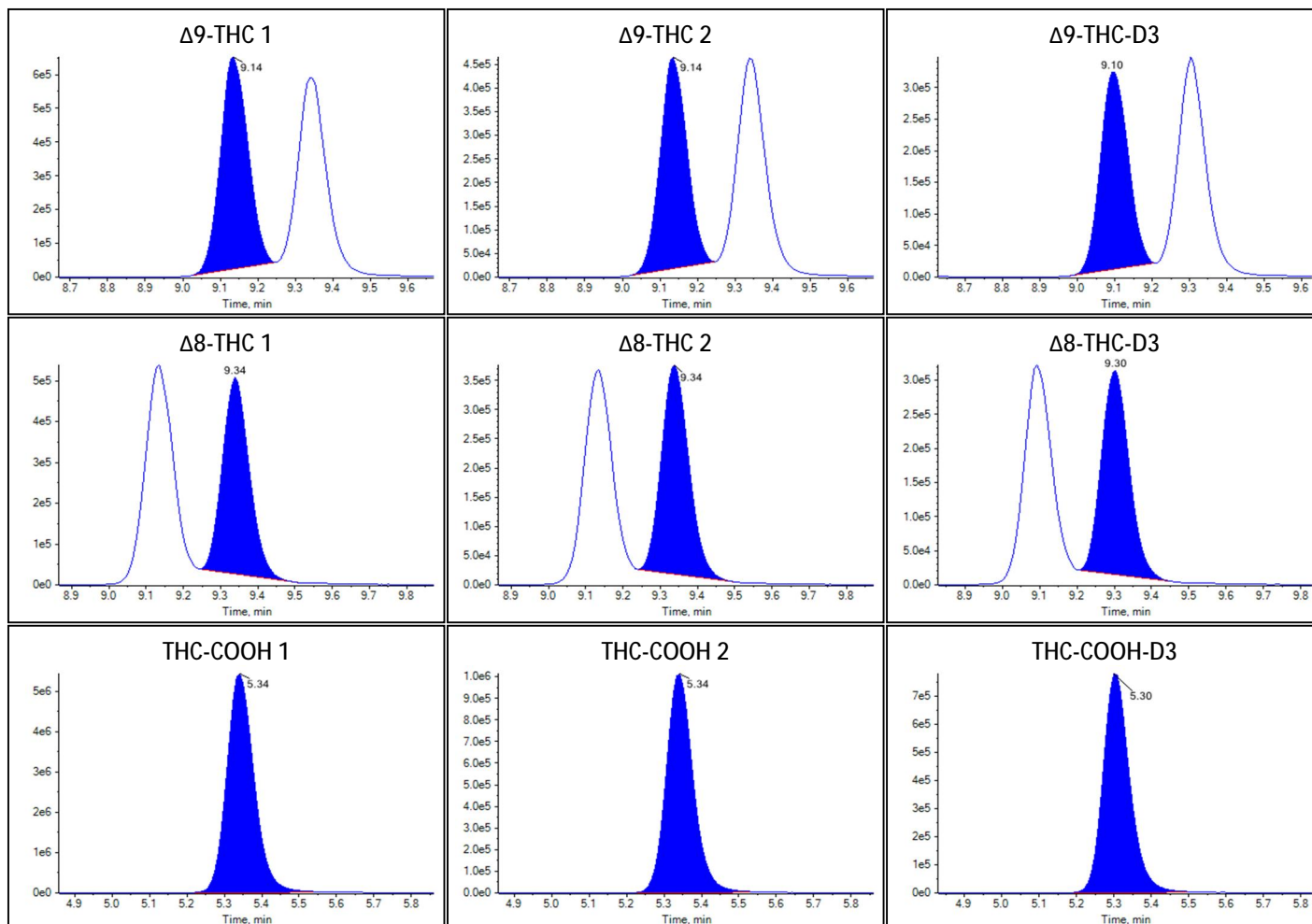
Identification Summary: Standard 5

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.614(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.692(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.759(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.184(Pass)

Peak Review: Standard 5



Peak Review: Standard 5





Sample Summary

Sample Name	Standard 6
Acquisition Date/Time	2022-09-28T18:21:26
Acquisition Method	THC.dam
Batch Name	20220928SK Wisconsin.dab
Results Table	20220928 SK Wisconsin
Sample Type	Standard
File Name	20220928 SK Wisconsin.wiff
Position	6
Sample Comment	

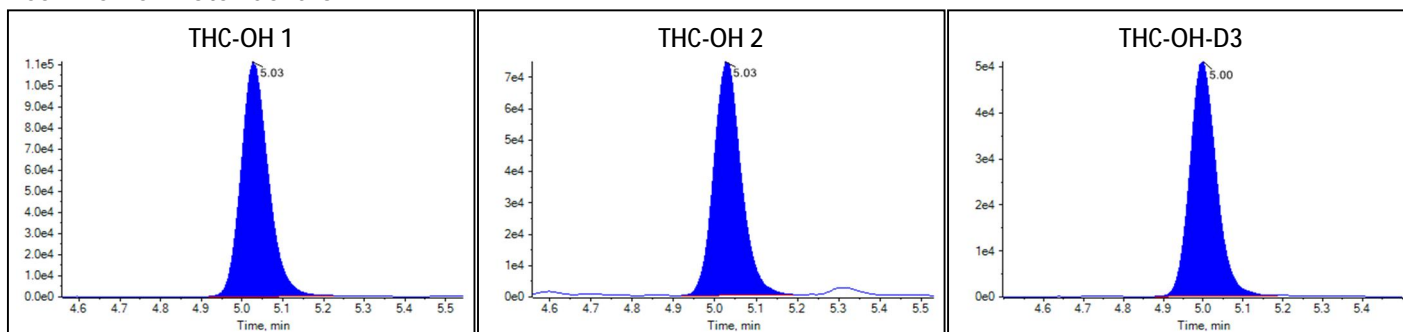
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.201	19.263		
Δ^9 -THC	2.670	98.698		
Δ^8 -THC	1.902	96.163		
THC-COOH	9.553	99.969		

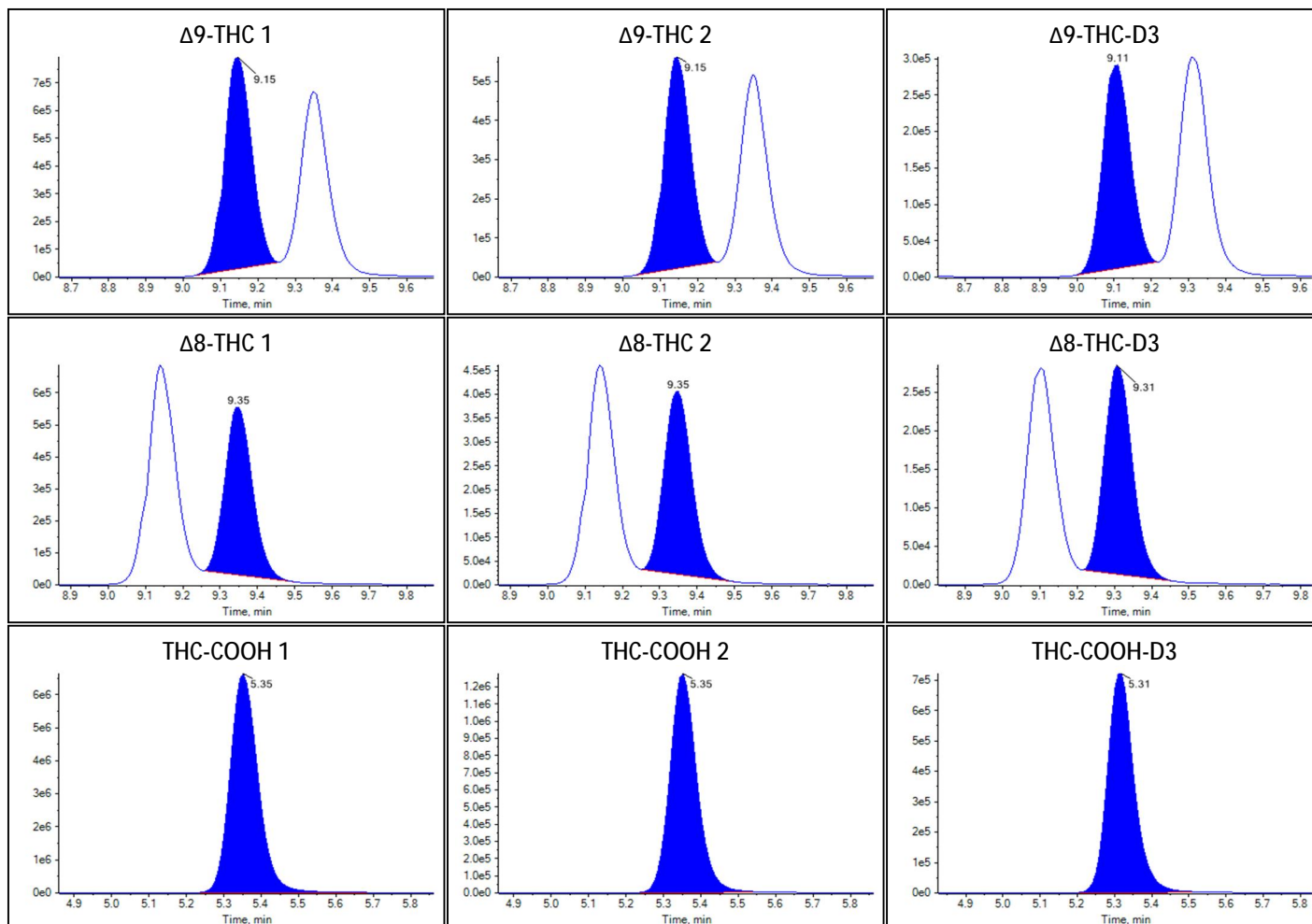
Identification Summary: Standard 6

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.665(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.699(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.747(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.186(Pass)

Peak Review: Standard 6



Peak Review: Standard 6





Sample Summary

Sample Name	Negative
Acquisition Date/Time	2022-09-28T18:35:31
Acquisition Method	THC.dam
Batch Name	20220928SK Wisconsin.dab
Results Table	20220928 SK Wisconsin
Sample Type	Quality Control
File Name	20220928 SK Wisconsin.wiff
Position	7
Sample Comment	

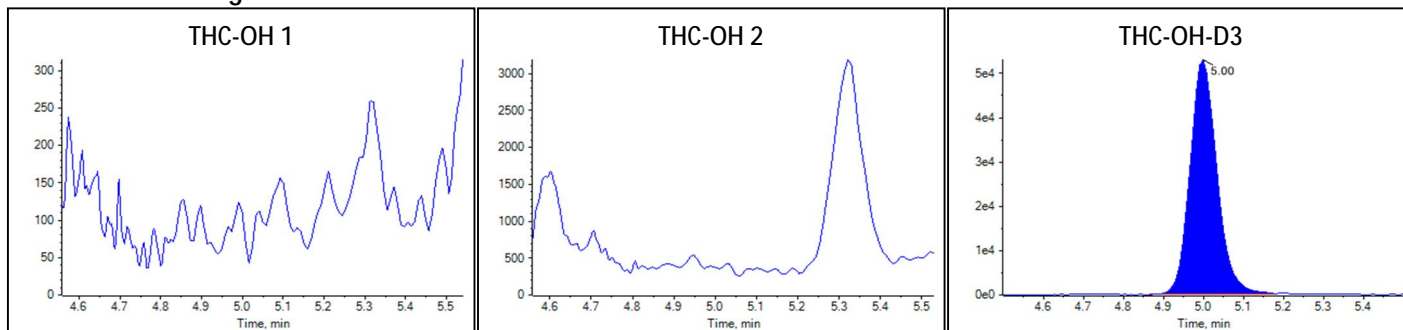
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	N/A	N/A		

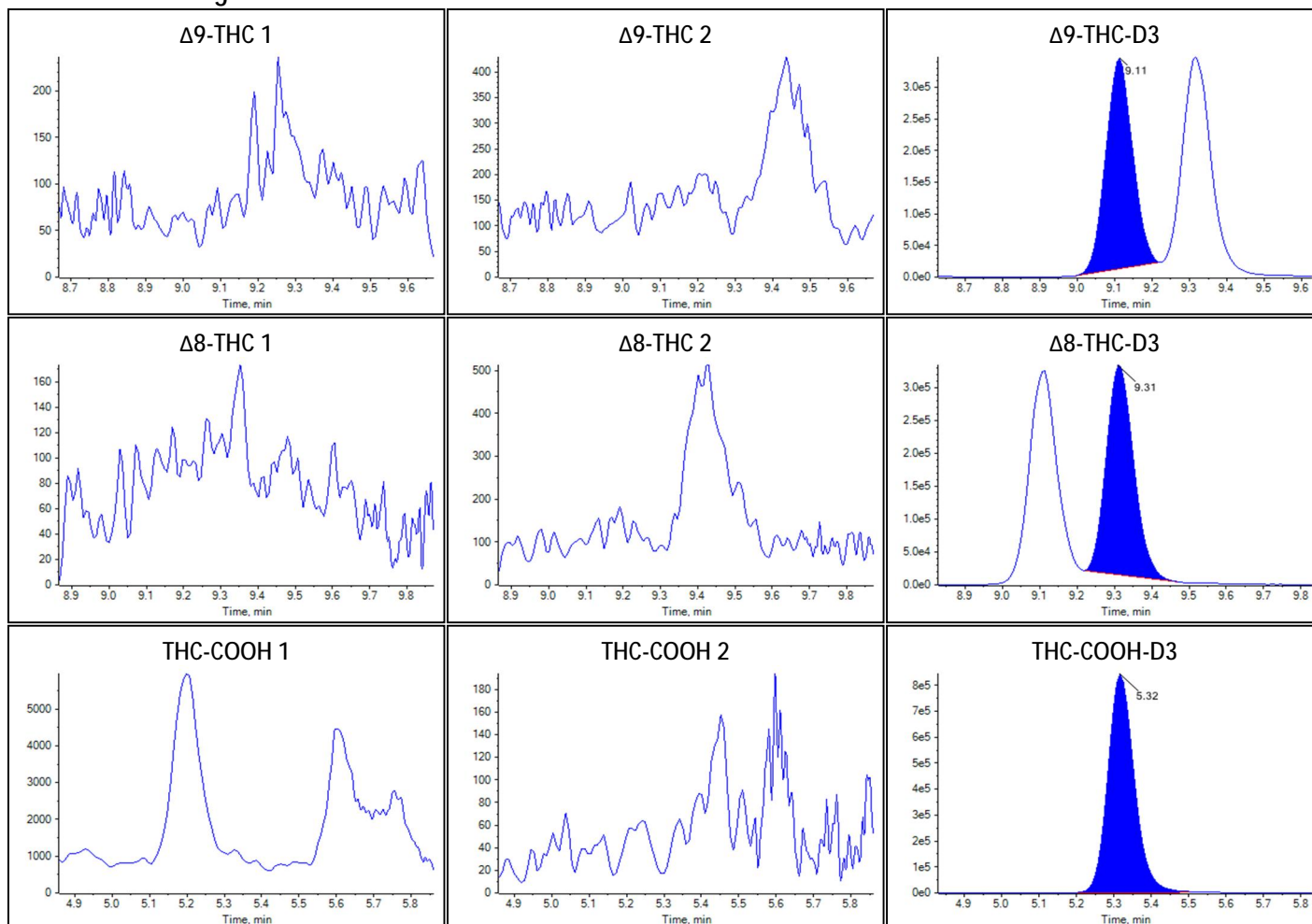
Identification Summary: Negative

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ^9 -THC 1	315.1 / 193.1	N/A	
Δ^9 -THC 2	315.1 / 123.0	N/A	N/A
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	N/A	
THC-COOH 2	343.0 / 191.0	N/A	N/A

Peak Review: Negative



Peak Review: Negative





Sample Summary

Sample Name	Medium
Acquisition Date/Time	2022-09-28T18:49:37
Acquisition Method	THC.dam
Batch Name	20220928SK Wisconsin.dab
Results Table	20220928 SK Wisconsin
Sample Type	Quality Control
File Name	20220928 SK Wisconsin.wiff
Position	8
Sample Comment	

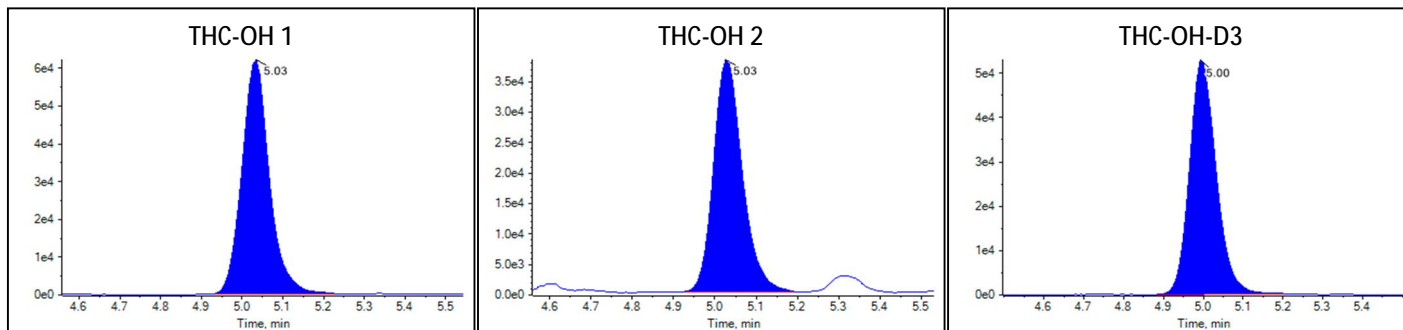
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.186	10.446		
Δ^9 -THC	1.149	40.725		
Δ^8 -THC	0.900	40.948		
THC-COOH	4.069	42.508		

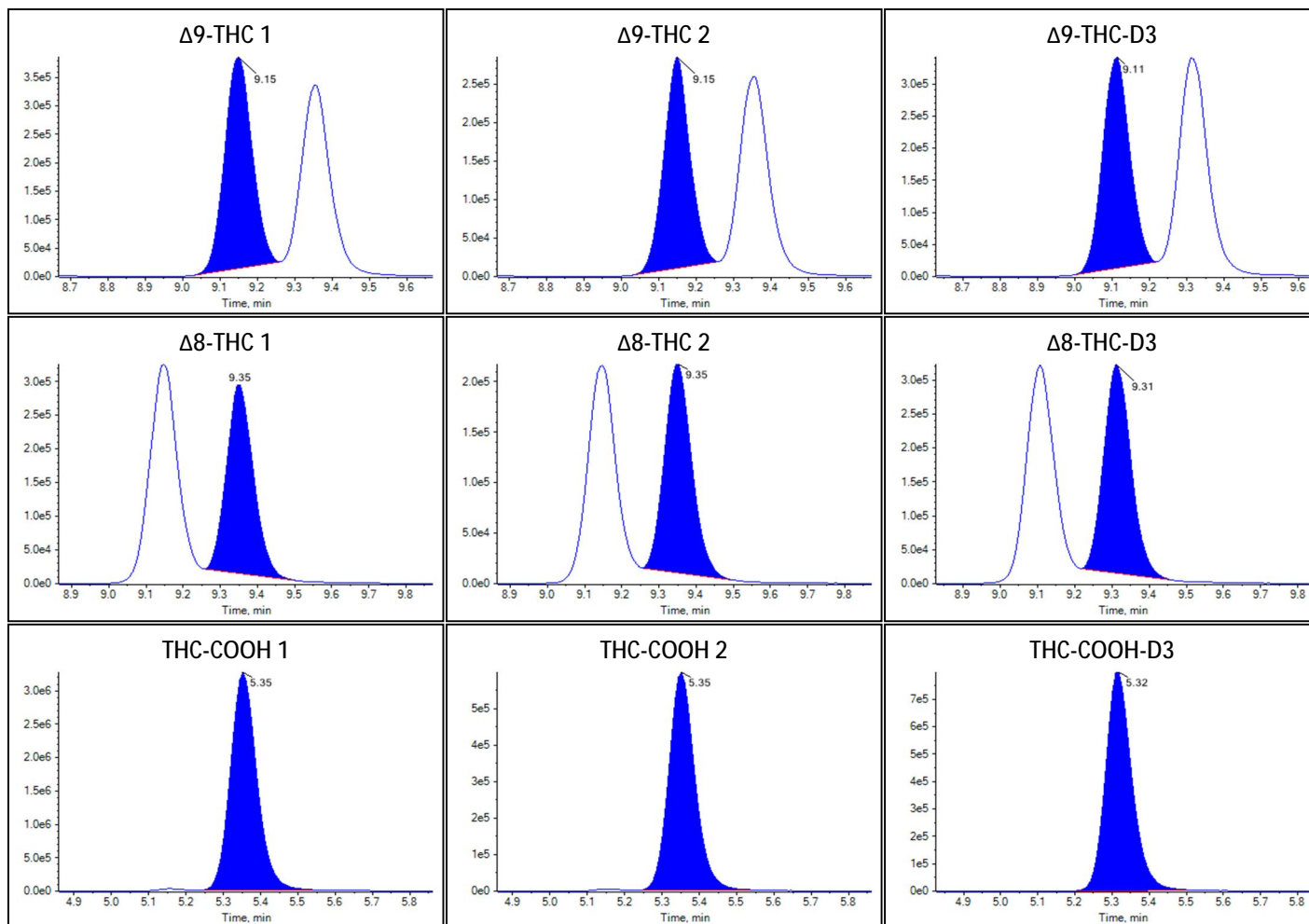
Identification Summary: Medium

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.637(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.694(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.749(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.182(Pass)

Peak Review: Medium



Peak Review: Medium





Sample Summary

Sample Name	5 µL injection
Acquisition Date/Time	2022-09-28T19:03:42
Acquisition Method	THC.dam
Batch Name	20220928SK Wisconsin.dab
Results Table	20220928 SK Wisconsin
Sample Type	Unknown
File Name	20220928 SK Wisconsin.wiff
Position	1
Sample Comment	

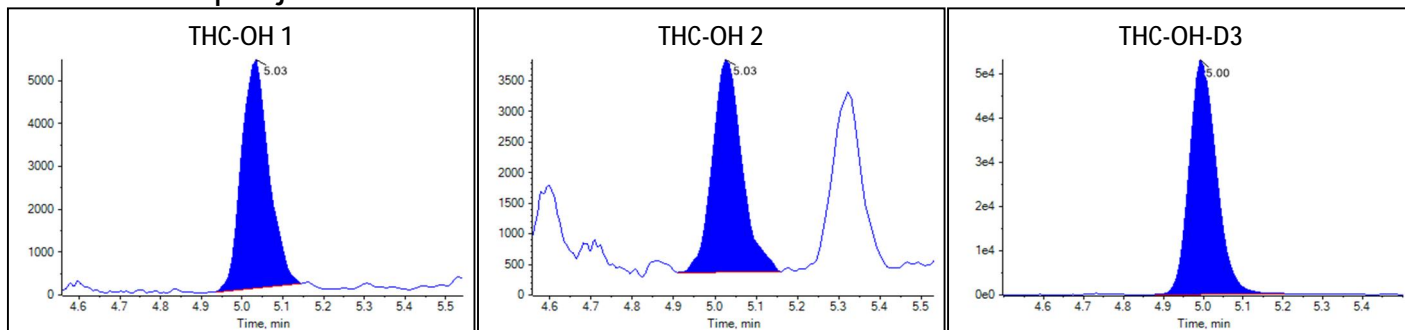
Quantitative Summary

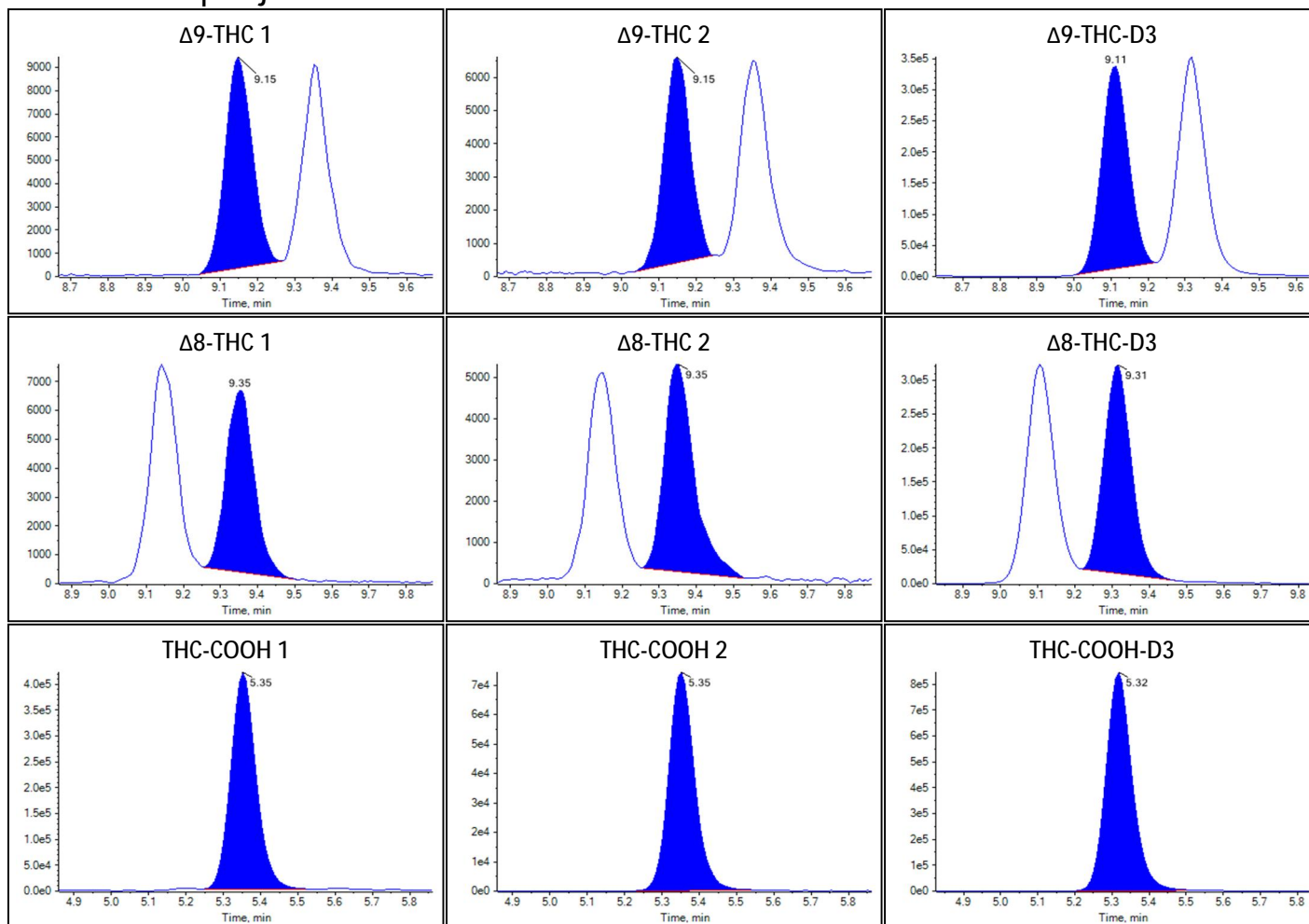
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.099	1.009		
Δ9-THC	0.028	1.039		
Δ8-THC	0.021	1.087		
THC-COOH	0.478	4.869		

Identification Summary: 5 µL injection

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.695(Pass)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.669(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.853(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.181(Pass)

Peak Review: 5 µL injection



Peak Review: 5 μ L injection



Sample Summary

Sample Name	W1
Acquisition Date/Time	2022-09-28T19:17:47
Acquisition Method	THC.dam
Batch Name	20220928SK Wisconsin.dab
Results Table	20220928 SK Wisconsin
Sample Type	Unknown
File Name	20220928 SK Wisconsin.wiff
Position	11
Sample Comment	

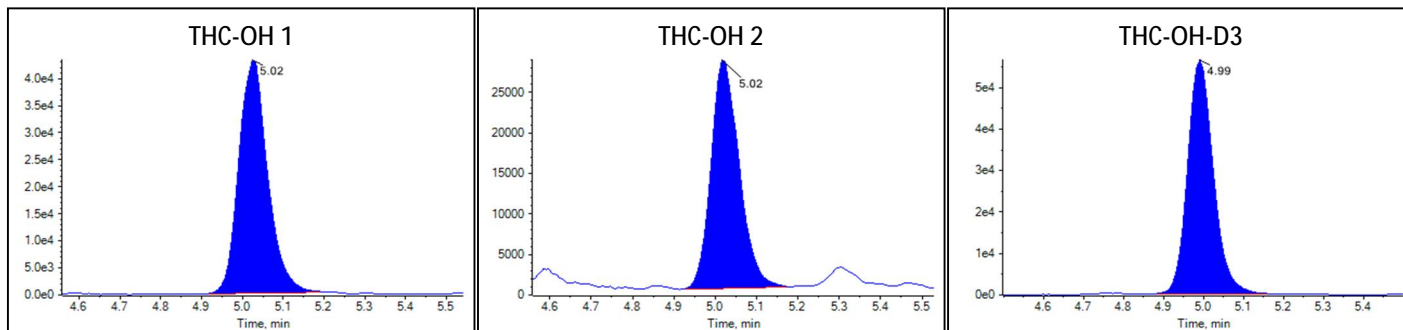
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.839	7.433		
Δ^9 -THC	1.273	45.244		
Δ^8 -THC	N/A	N/A		
THC-COOH	14.855	155.534		

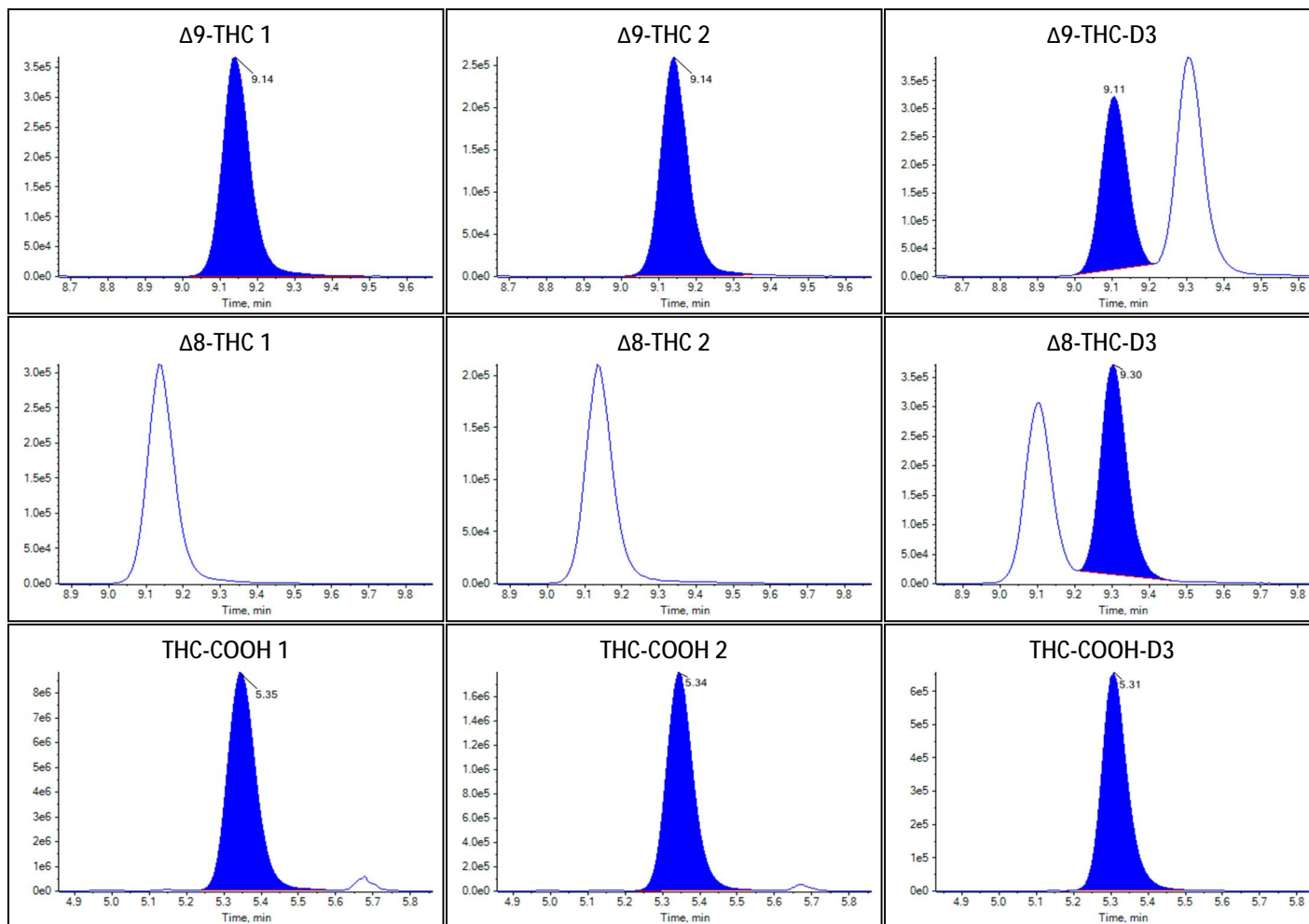
Identification Summary: W1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.632(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.688(Pass)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.193(Pass)

Peak Review: W1



Peak Review: W1





Sample Summary

Sample Name	W2
Acquisition Date/Time	2022-09-28T19:31:53
Acquisition Method	THC.dam
Batch Name	20220928SK Wisconsin.dab
Results Table	20220928 SK Wisconsin
Sample Type	Unknown
File Name	20220928 SK Wisconsin.wiff
Position	12
Sample Comment	

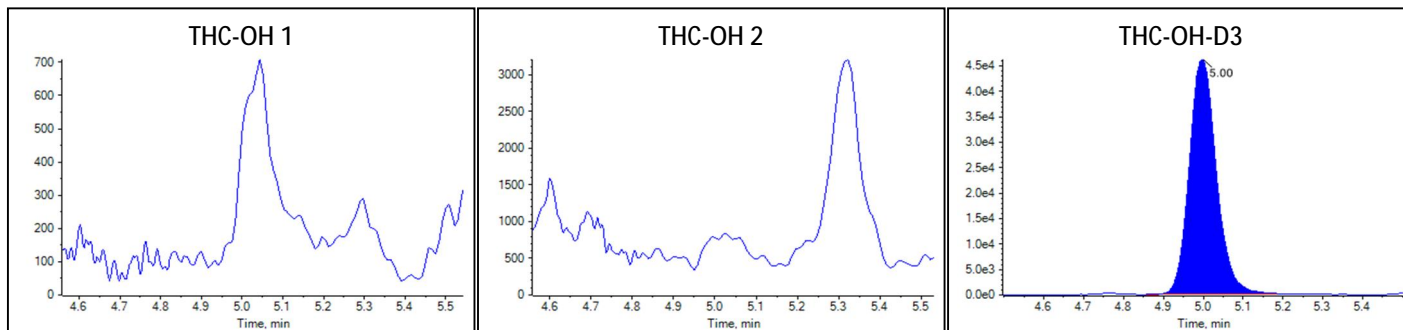
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	0.008	0.354		
Δ^8 -THC	N/A	N/A		
THC-COOH	0.379	3.830		

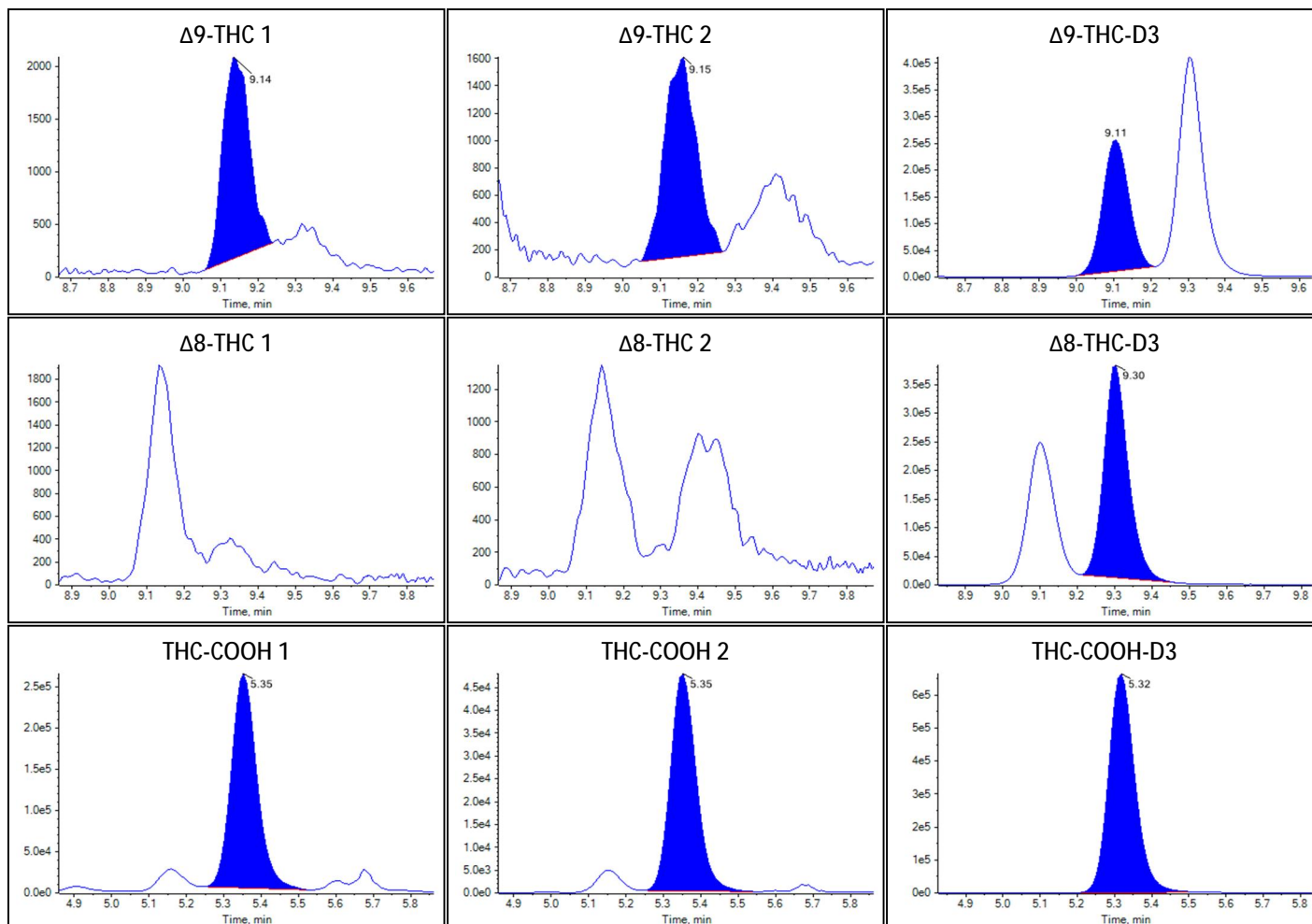
Identification Summary: W2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.010(Pass)	0.915(Fail)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.185(Pass)

Peak Review: W2



Peak Review: W2





Sample Summary

Sample Name	W3
Acquisition Date/Time	2022-09-28T19:45:58
Acquisition Method	THC.dam
Batch Name	20220928SK Wisconsin.dab
Results Table	20220928 SK Wisconsin
Sample Type	Unknown
File Name	20220928 SK Wisconsin.wiff
Position	13
Sample Comment	

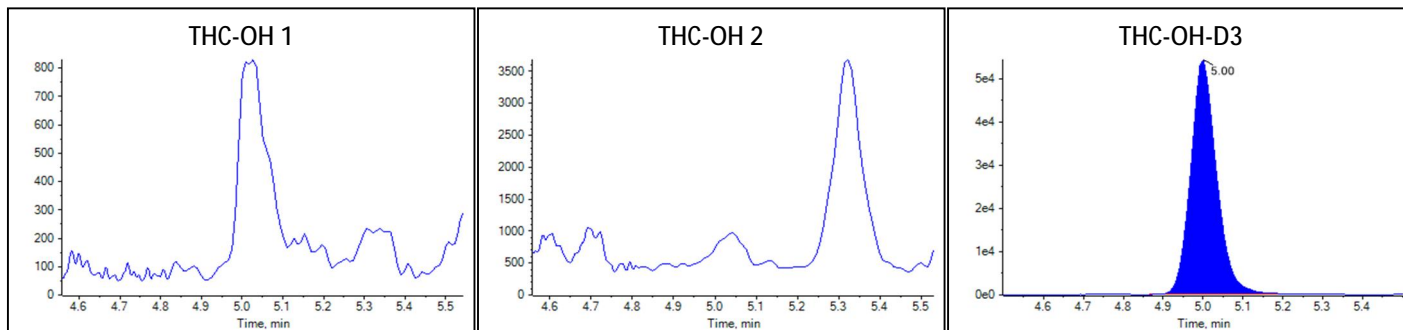
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	0.005	0.249		
Δ^8 -THC	N/A	N/A		
THC-COOH	0.159	1.523		

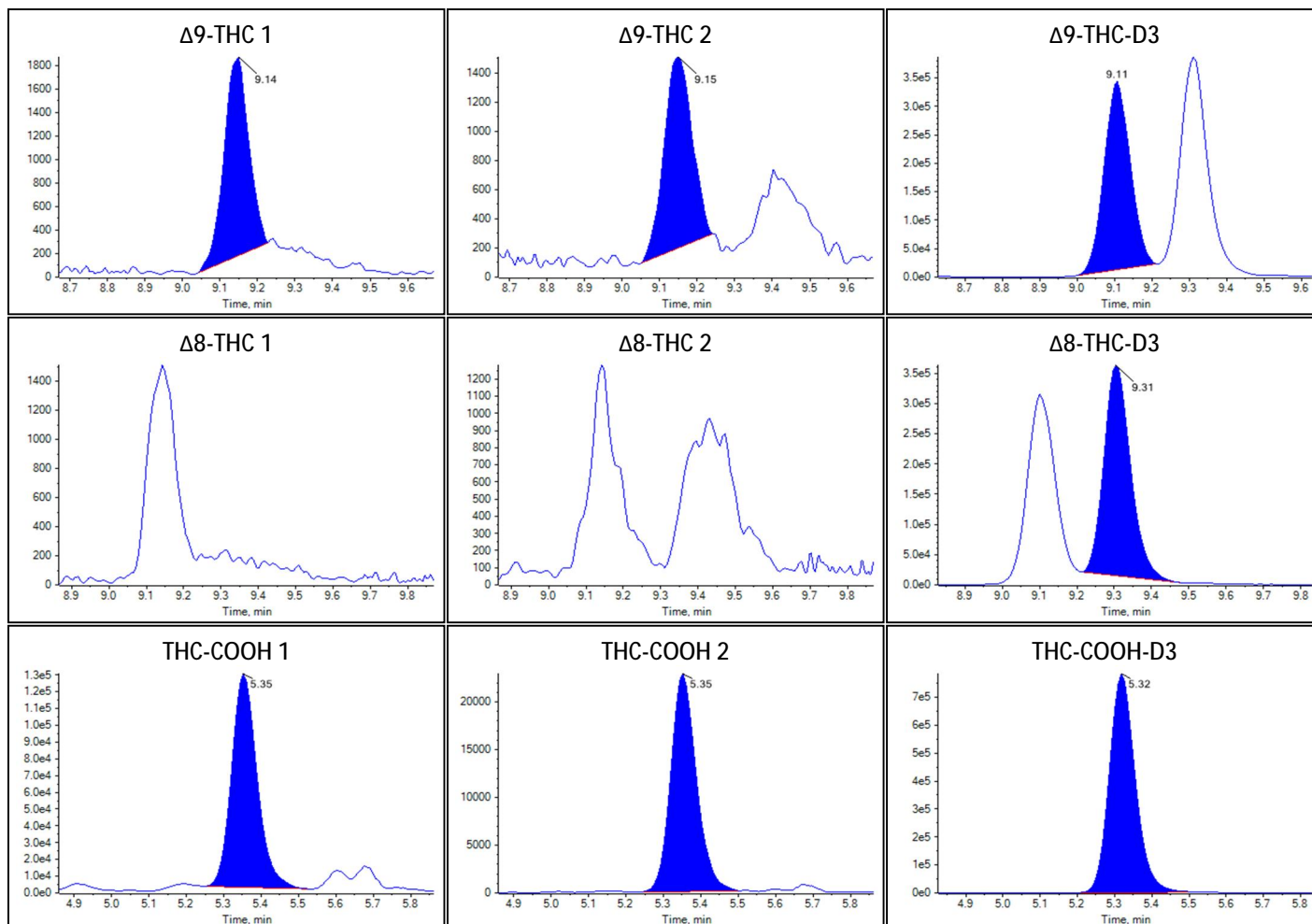
Identification Summary: W3

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.874(Fail)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.180(Pass)

Peak Review: W3



Peak Review: W3





Sample Summary

Sample Name	W4
Acquisition Date/Time	2022-09-28T20:00:04
Acquisition Method	THC.dam
Batch Name	20220928SK Wisconsin.dab
Results Table	20220928 SK Wisconsin
Sample Type	Unknown
File Name	20220928 SK Wisconsin.wiff
Position	14
Sample Comment	

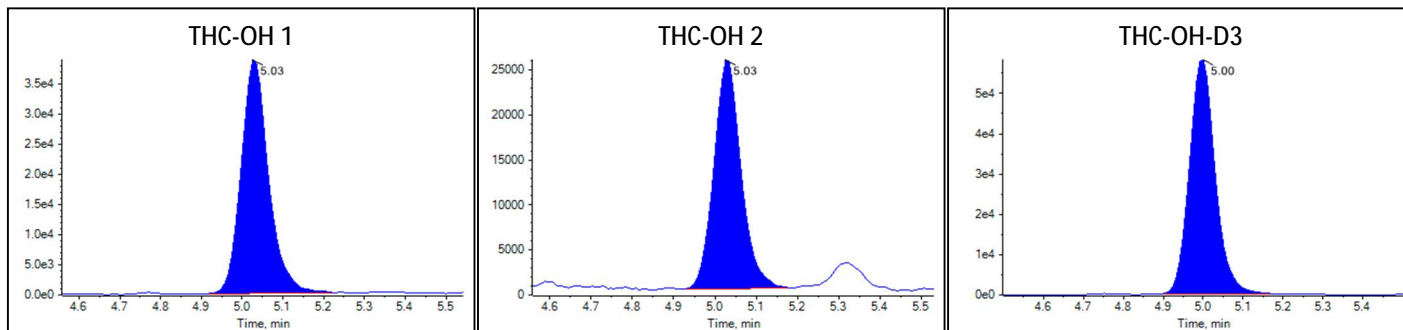
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.692	6.156		
Δ 9-THC	0.249	8.696		
Δ 8-THC	0.011	0.646		
THC-COOH	11.710	122.581		

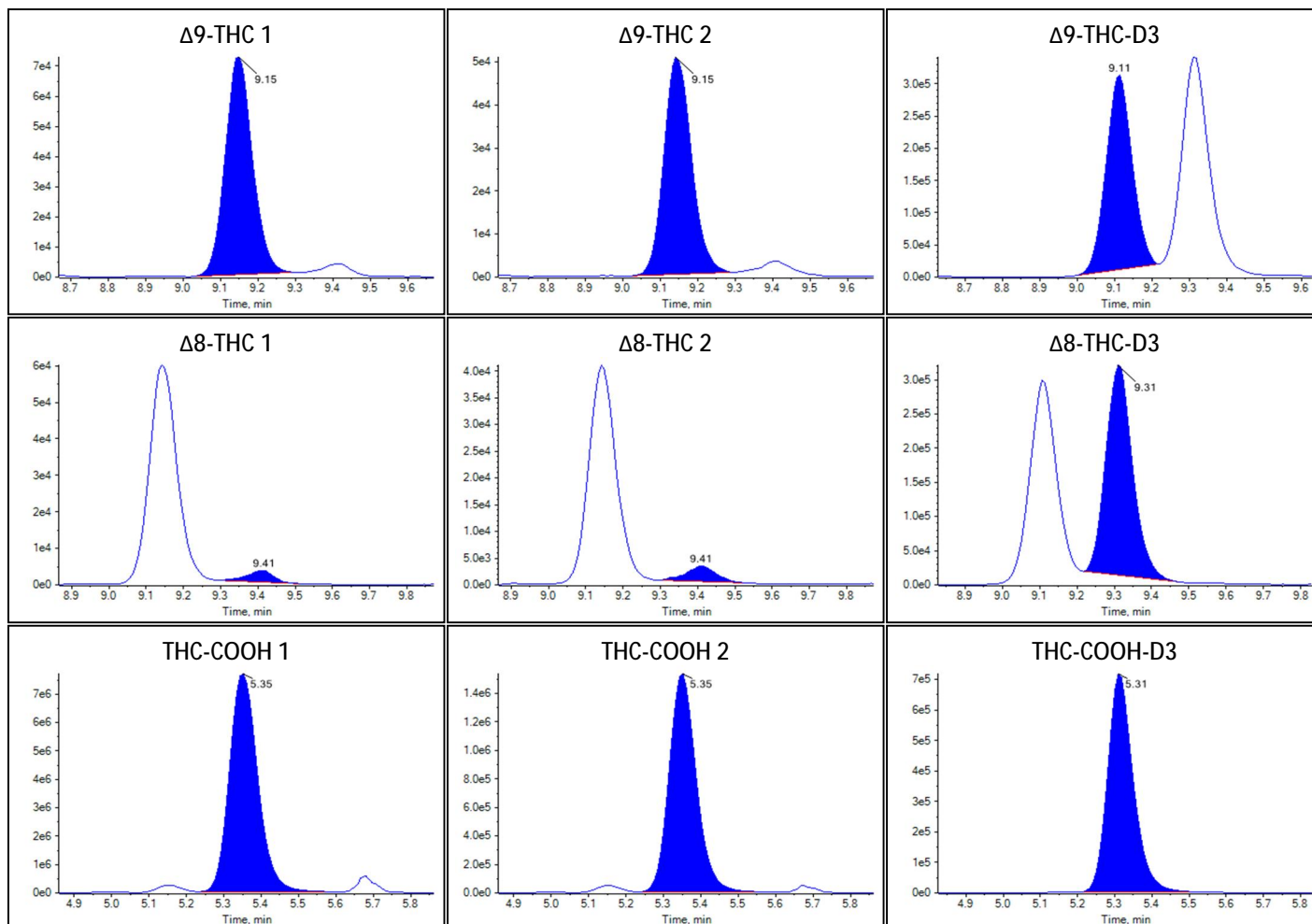
Identification Summary: W4

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.642(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.707(Pass)
Δ 8-THC 1	315.1 / 193.1	1.010(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.010(Pass)	0.995(Fail)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.191(Pass)

Peak Review: W4



Peak Review: W4





Sample Summary

Sample Name	W5
Acquisition Date/Time	2022-09-28T20:14:09
Acquisition Method	THC.dam
Batch Name	20220928SK Wisconsin.dab
Results Table	20220928 SK Wisconsin
Sample Type	Unknown
File Name	20220928 SK Wisconsin.wiff
Position	15
Sample Comment	

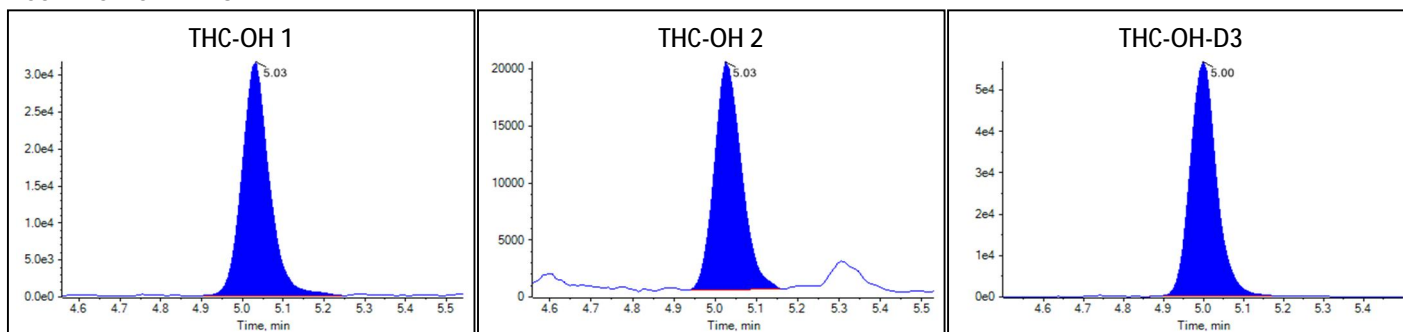
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.568	5.079		
Δ^9 -THC	0.272	9.500		
Δ^8 -THC	N/A	N/A		
THC-COOH	18.471	193.433		

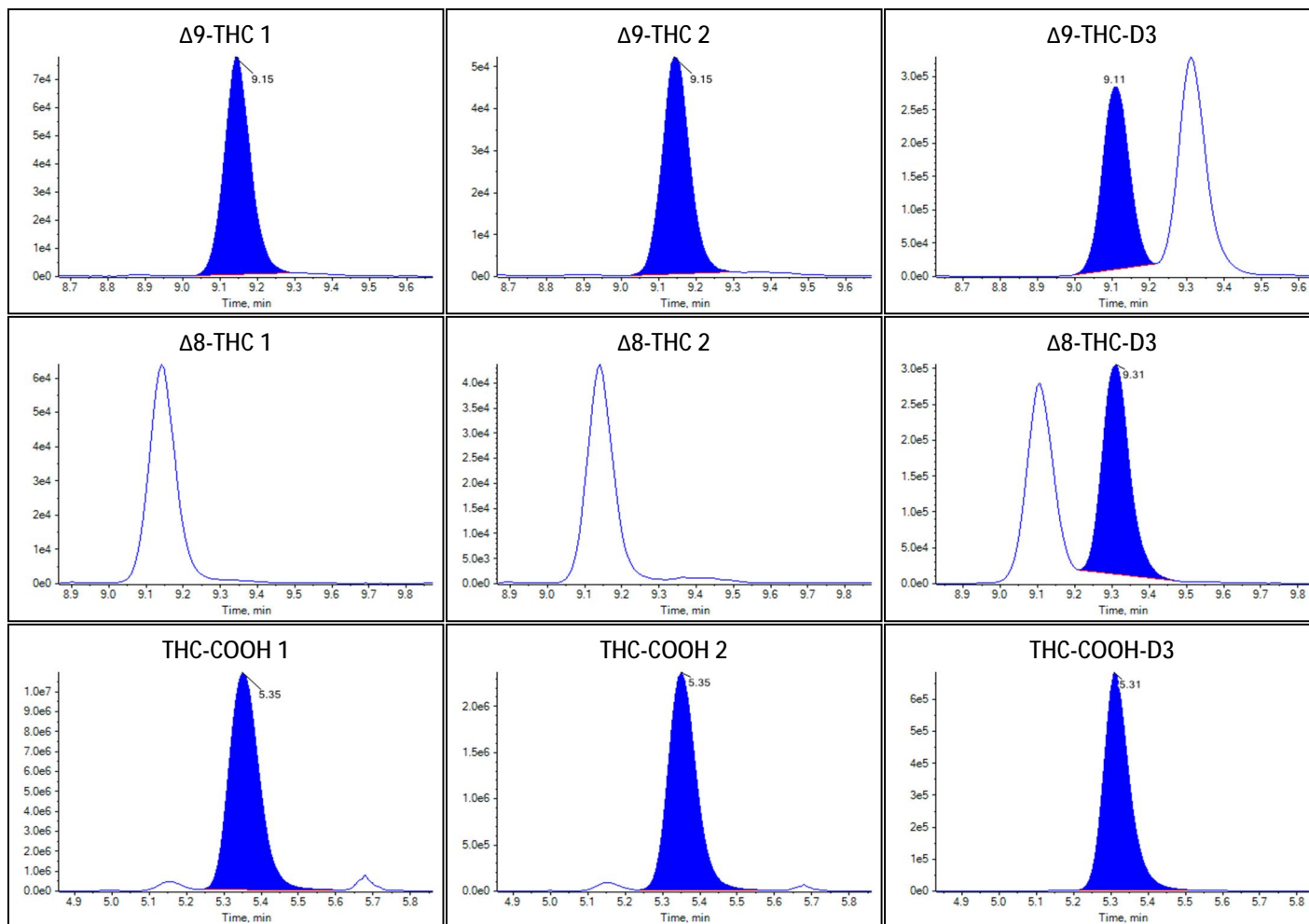
Identification Summary: W5

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.622(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.704(Pass)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.203(Pass)

Peak Review: W5



Peak Review: W5





Sample Summary

Sample Name	W6
Acquisition Date/Time	2022-09-28T20:28:14
Acquisition Method	THC.dam
Batch Name	20220928SK Wisconsin.dab
Results Table	20220928 SK Wisconsin
Sample Type	Unknown
File Name	20220928 SK Wisconsin.wiff
Position	16
Sample Comment	

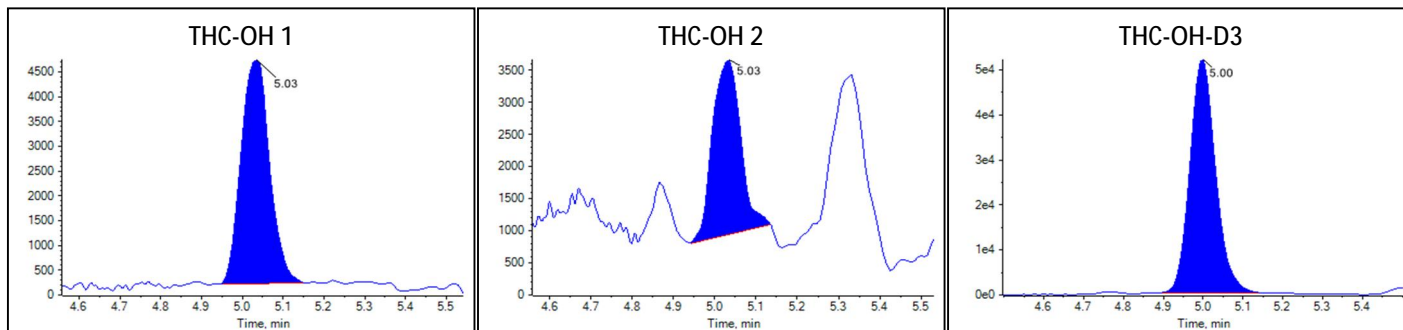
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.094	0.970		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	2.945	30.729		

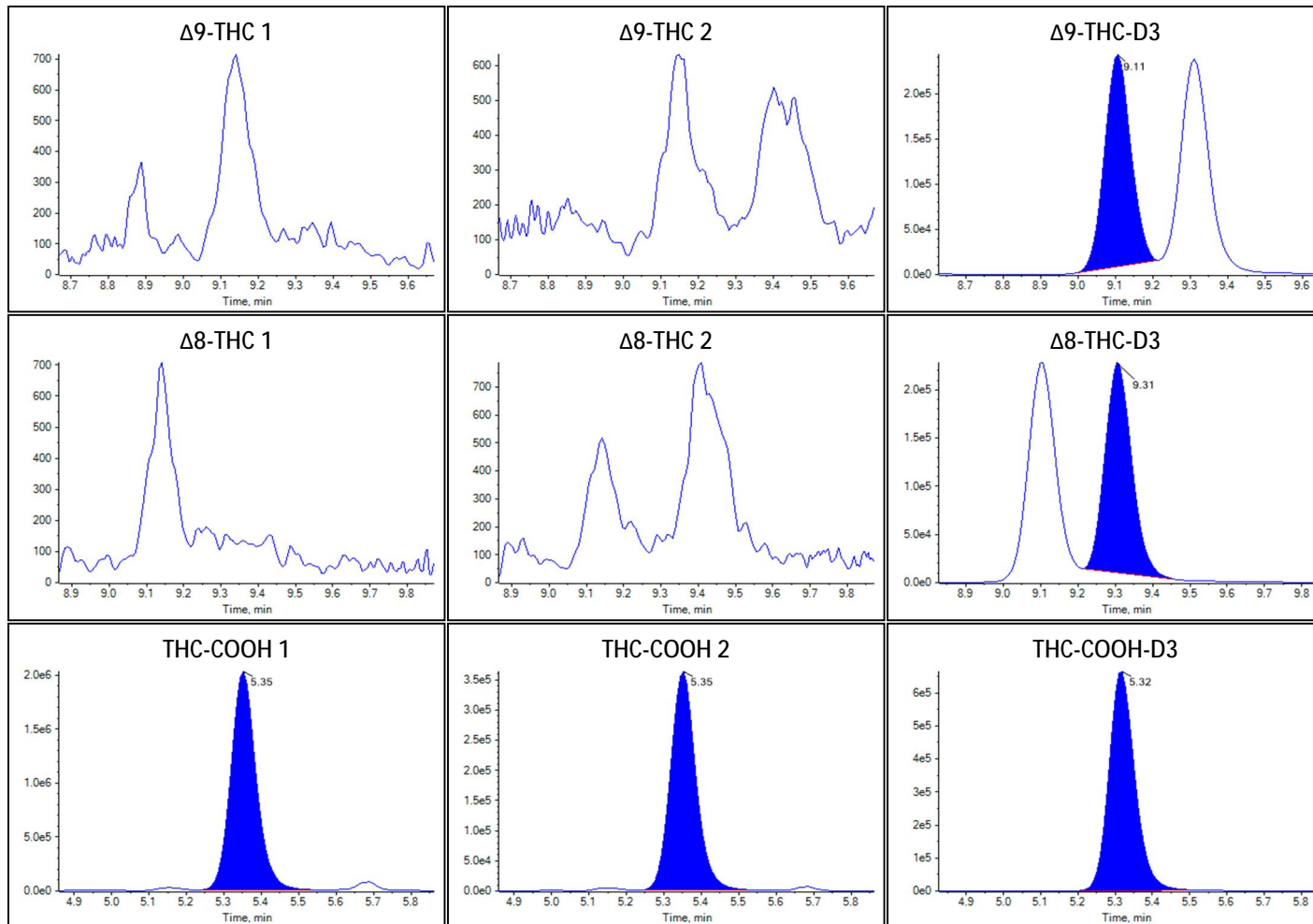
Identification Summary: W6

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.588(Pass)
Δ^9 -THC 1	315.1 / 193.1	N/A	
Δ^9 -THC 2	315.1 / 123.0	N/A	N/A
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.180(Pass)

Peak Review: W6



Peak Review: W6





Sample Summary

Sample Name	W7
Acquisition Date/Time	2022-09-28T20:42:20
Acquisition Method	THC.dam
Batch Name	20220928SK Wisconsin.dab
Results Table	20220928 SK Wisconsin
Sample Type	Unknown
File Name	20220928 SK Wisconsin.wiff
Position	17
Sample Comment	

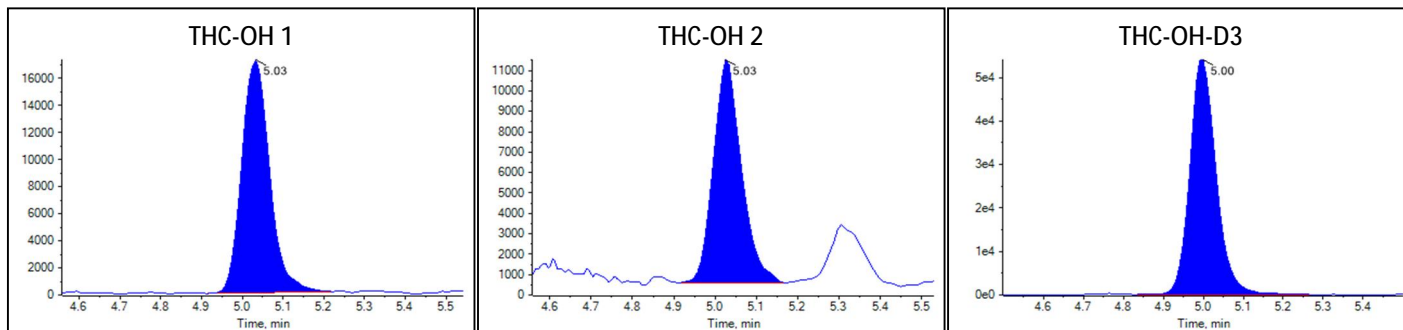
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.330	3.015		
Δ^9 -THC	0.437	15.234		
Δ^8 -THC	N/A	N/A		
THC-COOH	8.161	85.390		

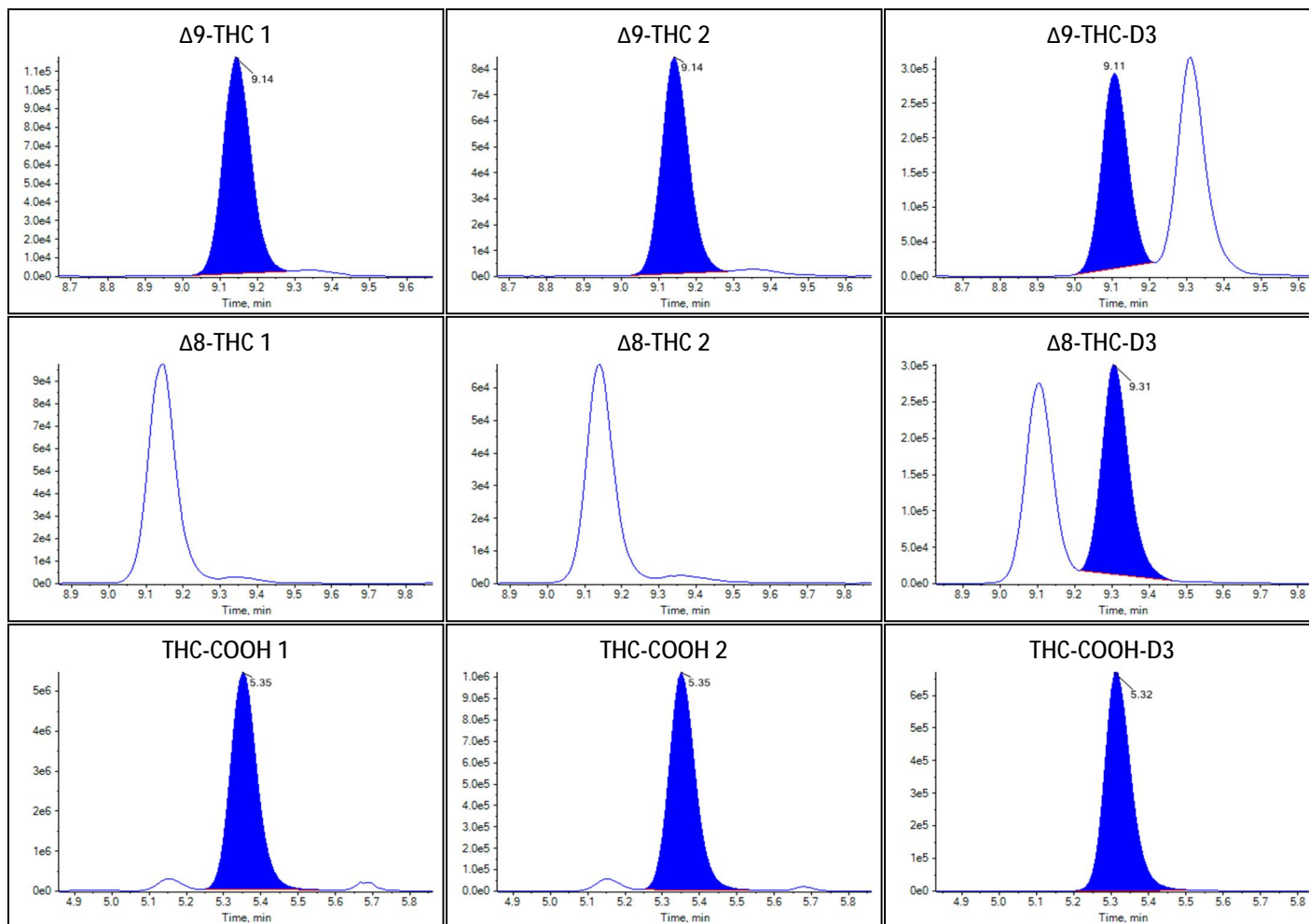
Identification Summary: W7

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.629(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.703(Pass)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.184(Pass)

Peak Review: W7



Peak Review: W7





Sample Summary

Sample Name	W8
Acquisition Date/Time	2022-09-28T20:56:25
Acquisition Method	THC.dam
Batch Name	20220928SK Wisconsin.dab
Results Table	20220928 SK Wisconsin
Sample Type	Unknown
File Name	20220928 SK Wisconsin.wiff
Position	18
Sample Comment	

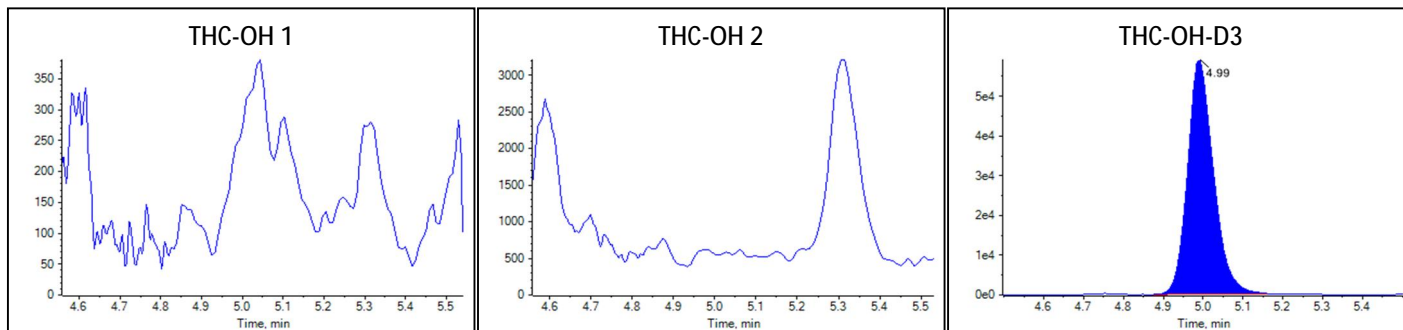
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	0.008	0.361		
Δ^8 -THC	N/A	N/A		
THC-COOH	0.590	6.044		

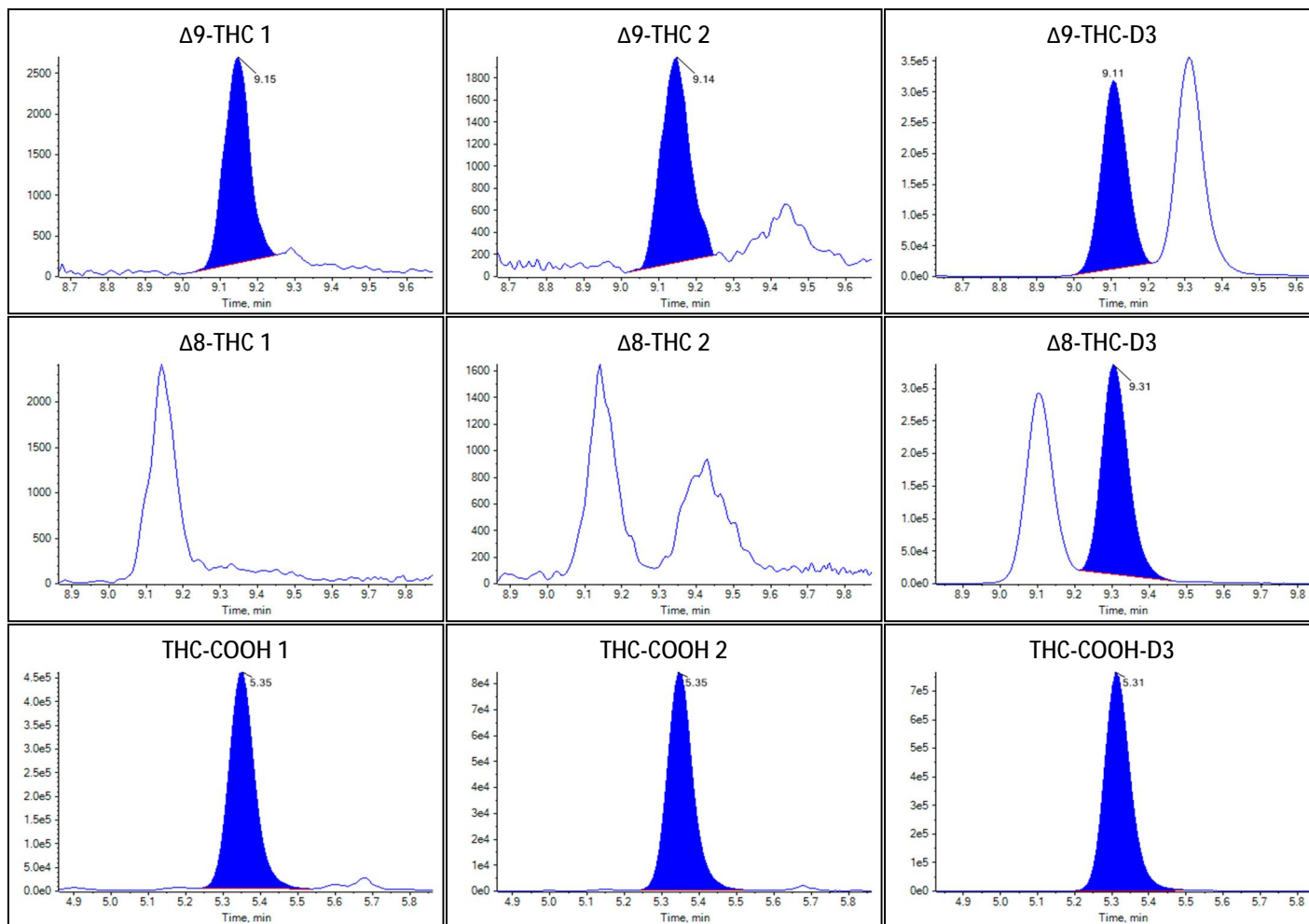
Identification Summary: W8

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.825(Pass)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.182(Pass)

Peak Review: W8



Peak Review: W8





Sample Summary

Sample Name	W9
Acquisition Date/Time	2022-09-28T21:10:30
Acquisition Method	THC.dam
Batch Name	20220928SK Wisconsin.dab
Results Table	20220928 SK Wisconsin
Sample Type	Unknown
File Name	20220928 SK Wisconsin.wiff
Position	19
Sample Comment	

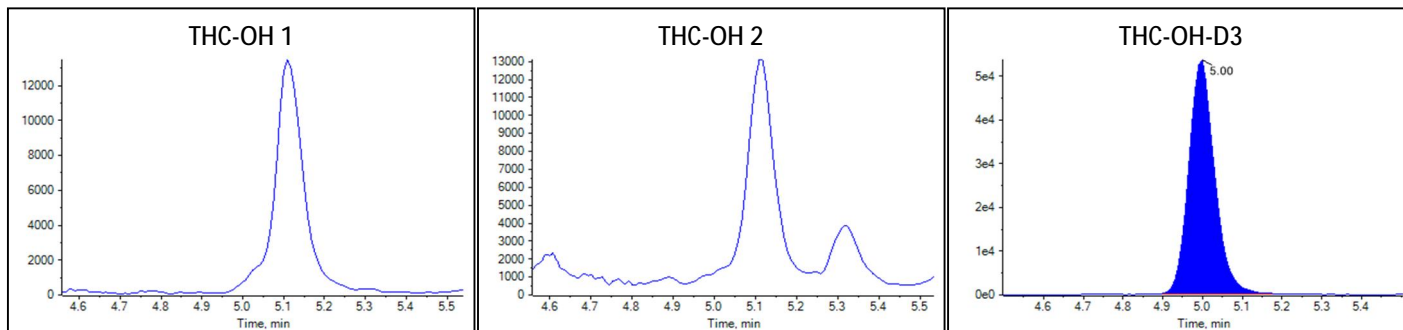
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	0.589	26.135		
THC-COOH	0.809	8.341		

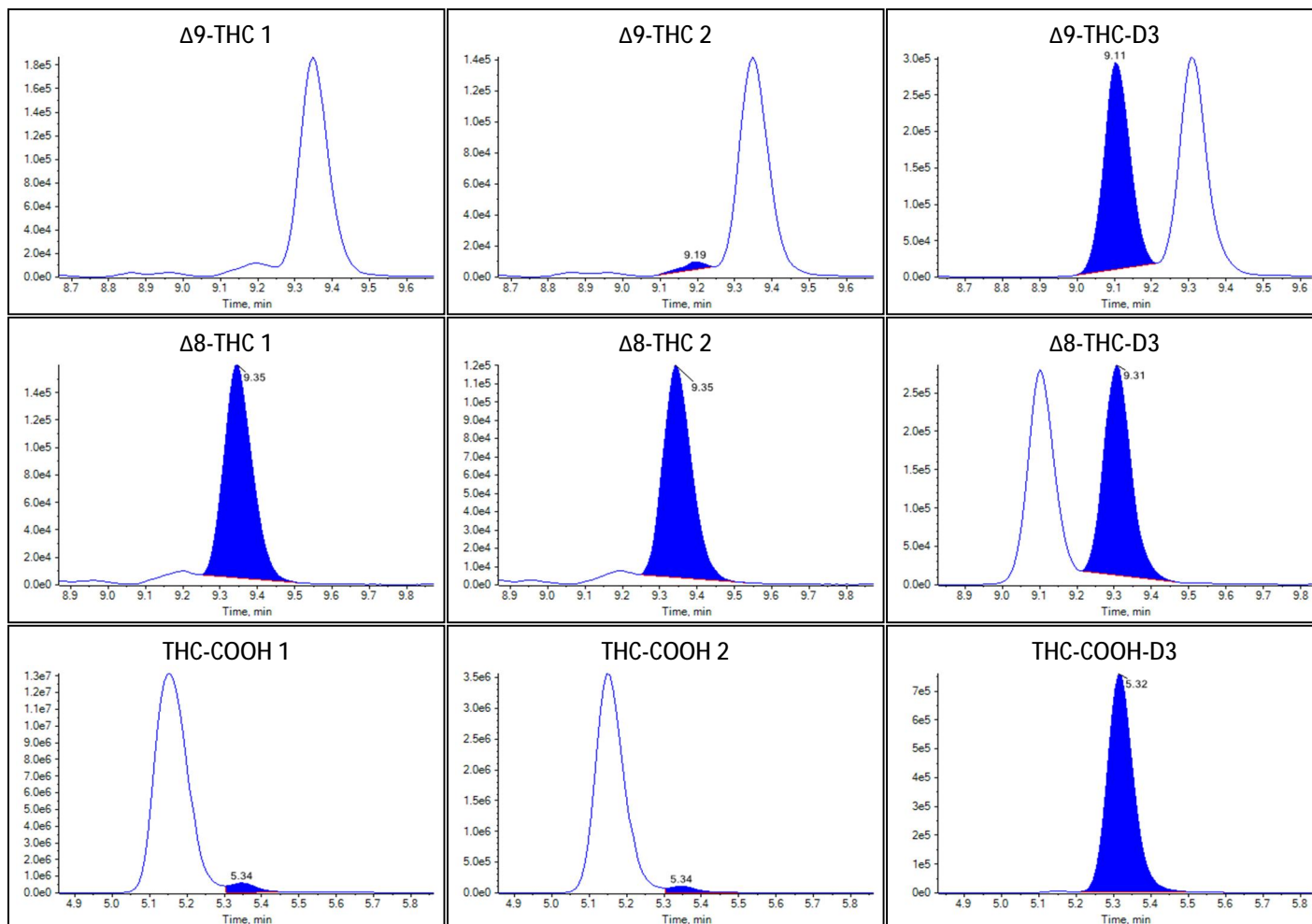
Identification Summary: W9

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ^9 -THC 1	315.1 / 193.1	N/A	
Δ^9 -THC 2	315.1 / 123.0	1.010(Pass)	N/A
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.753(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.000(Pass)	0.188(Pass)

Peak Review: W9



Peak Review: W9





Sample Summary

Sample Name	W10
Acquisition Date/Time	2022-09-28T21:24:36
Acquisition Method	THC.dam
Batch Name	20220928SK Wisconsin.dab
Results Table	20220928 SK Wisconsin
Sample Type	Unknown
File Name	20220928 SK Wisconsin.wiff
Position	20
Sample Comment	

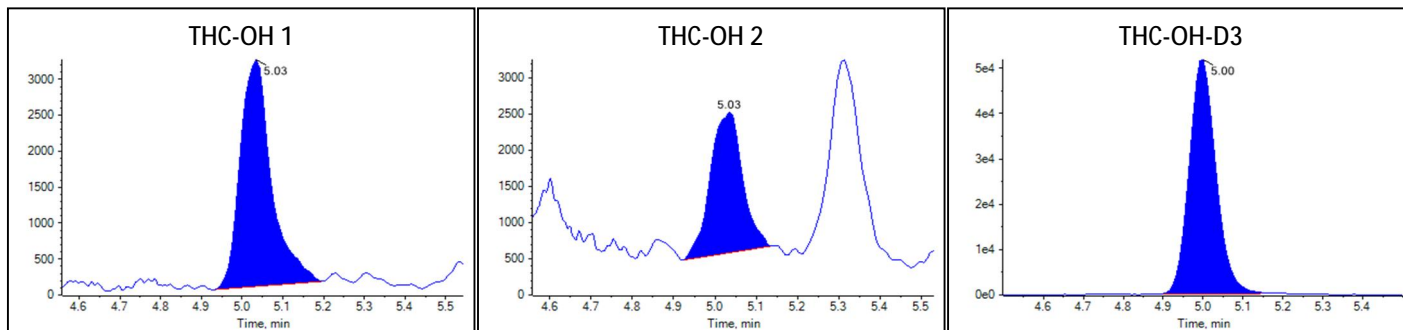
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.070	0.759		
Δ^9 -THC	0.042	1.538		
Δ^8 -THC	0.009	0.567		
THC-COOH	2.162	22.520		

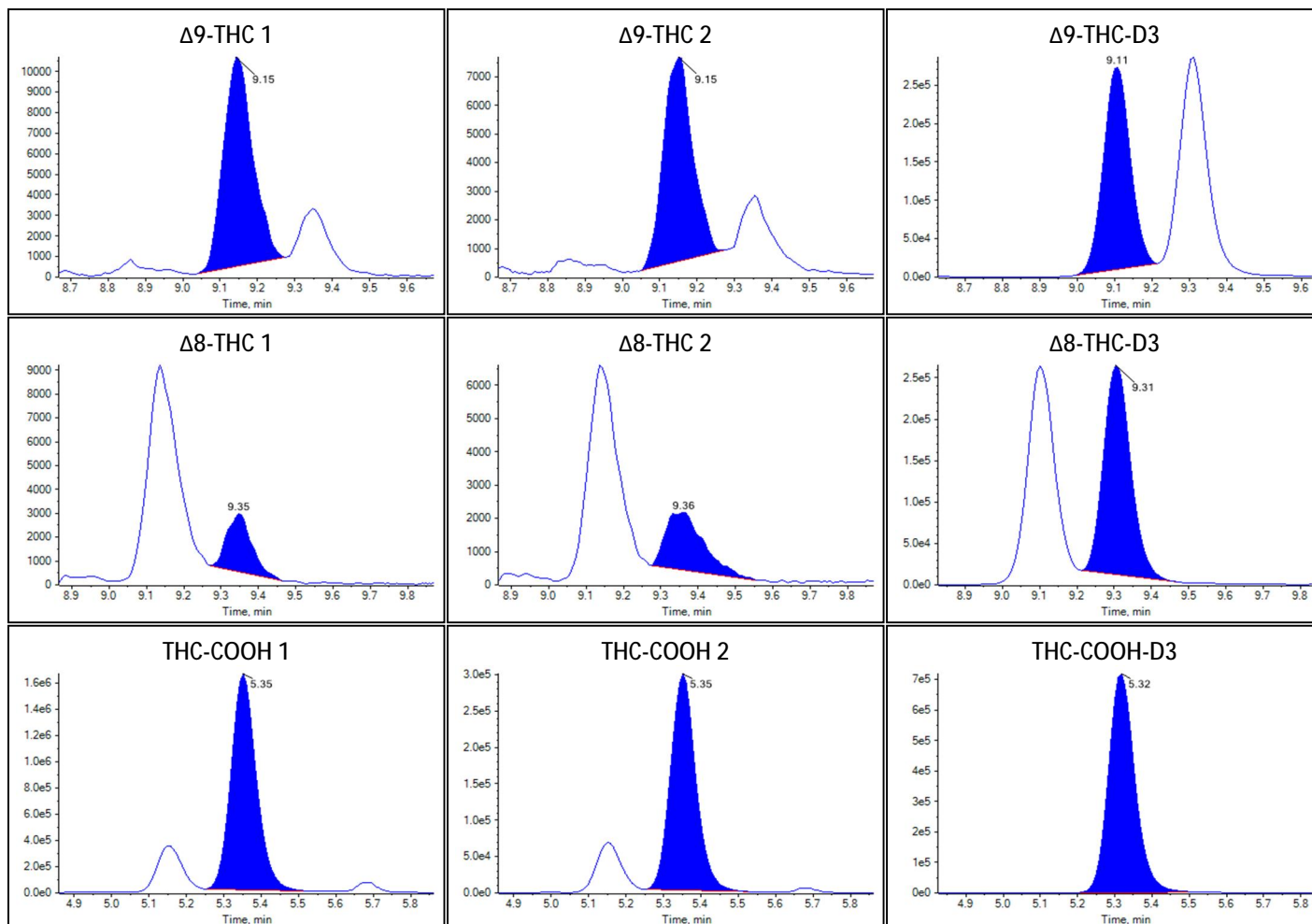
Identification Summary: W10

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.629(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.702(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.010(Pass)	1.096(Fail)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.181(Pass)

Peak Review: W10



Peak Review: W10





Sample Summary

Sample Name	W11
Acquisition Date/Time	2022-09-28T21:38:41
Acquisition Method	THC.dam
Batch Name	20220928SK Wisconsin.dab
Results Table	20220928 SK Wisconsin
Sample Type	Unknown
File Name	20220928 SK Wisconsin.wiff
Position	21
Sample Comment	

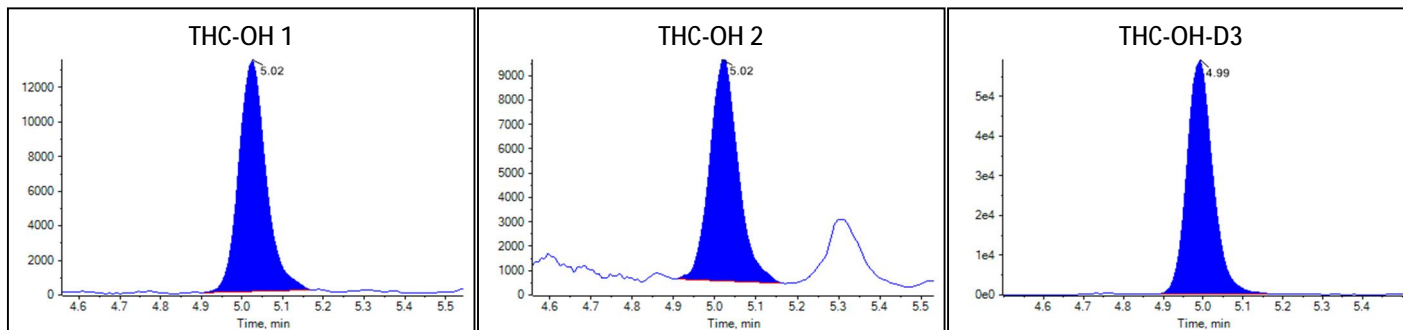
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.234	2.184		
Δ^9 -THC	0.116	4.066		
Δ^8 -THC	N/A	N/A		
THC-COOH	8.753	91.591		

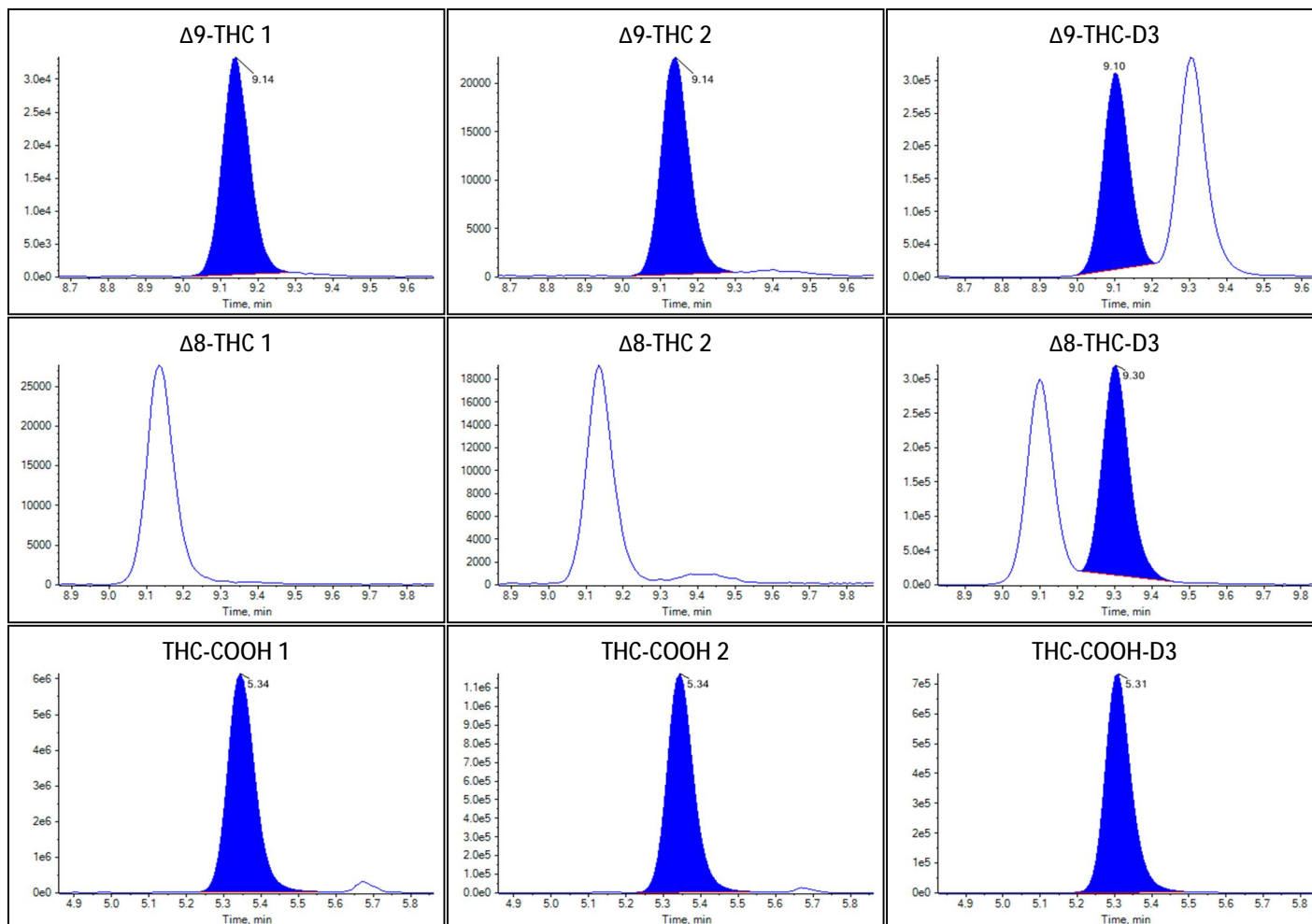
Identification Summary: W11

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.704(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.704(Pass)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.187(Pass)

Peak Review: W11



Peak Review: W11





Sample Summary

Sample Name	W12
Acquisition Date/Time	2022-09-28T21:52:47
Acquisition Method	THC.dam
Batch Name	20220928SK Wisconsin.dab
Results Table	20220928 SK Wisconsin
Sample Type	Unknown
File Name	20220928 SK Wisconsin.wiff
Position	22
Sample Comment	

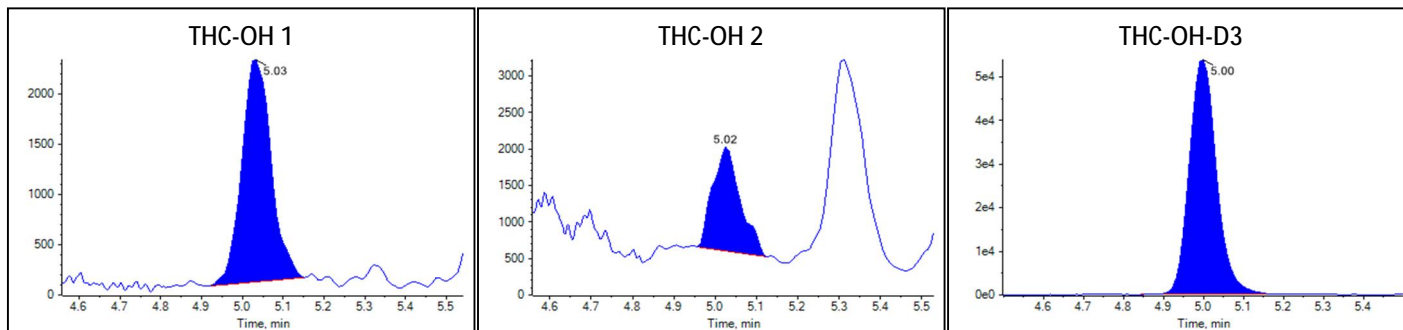
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.044	0.530		
Δ^9 -THC	0.016	0.642		
Δ^8 -THC	N/A	N/A		
THC-COOH	0.769	7.917		

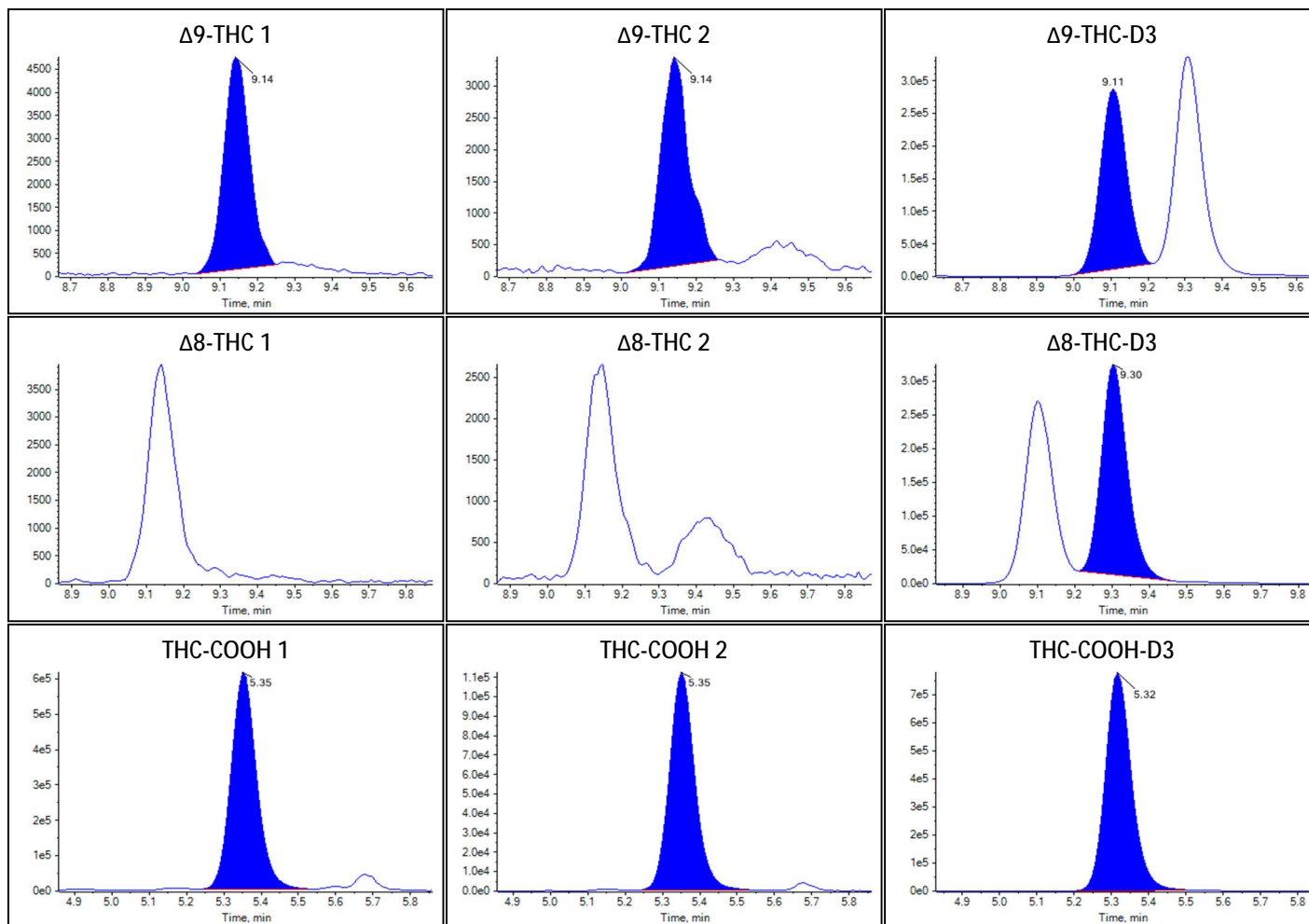
Identification Summary: W12

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.597(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.771(Pass)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.183(Pass)

Peak Review: W12



Peak Review: W12





Sample Summary

Sample Name	W13
Acquisition Date/Time	2022-09-28T22:06:52
Acquisition Method	THC.dam
Batch Name	20220928SK Wisconsin.dab
Results Table	20220928 SK Wisconsin
Sample Type	Unknown
File Name	20220928 SK Wisconsin.wiff
Position	23
Sample Comment	

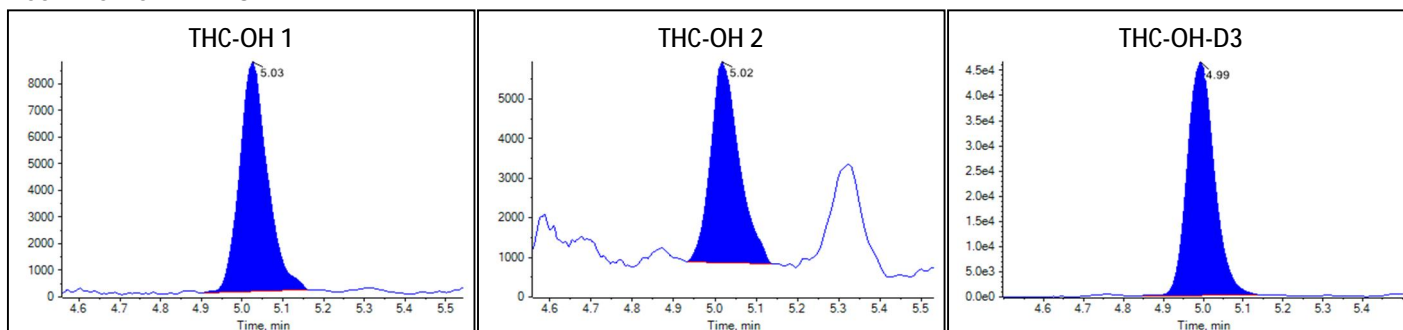
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.187	1.771		
Δ^9 -THC	0.018	0.695		
Δ^8 -THC	N/A	N/A		
THC-COOH	5.845	61.111		

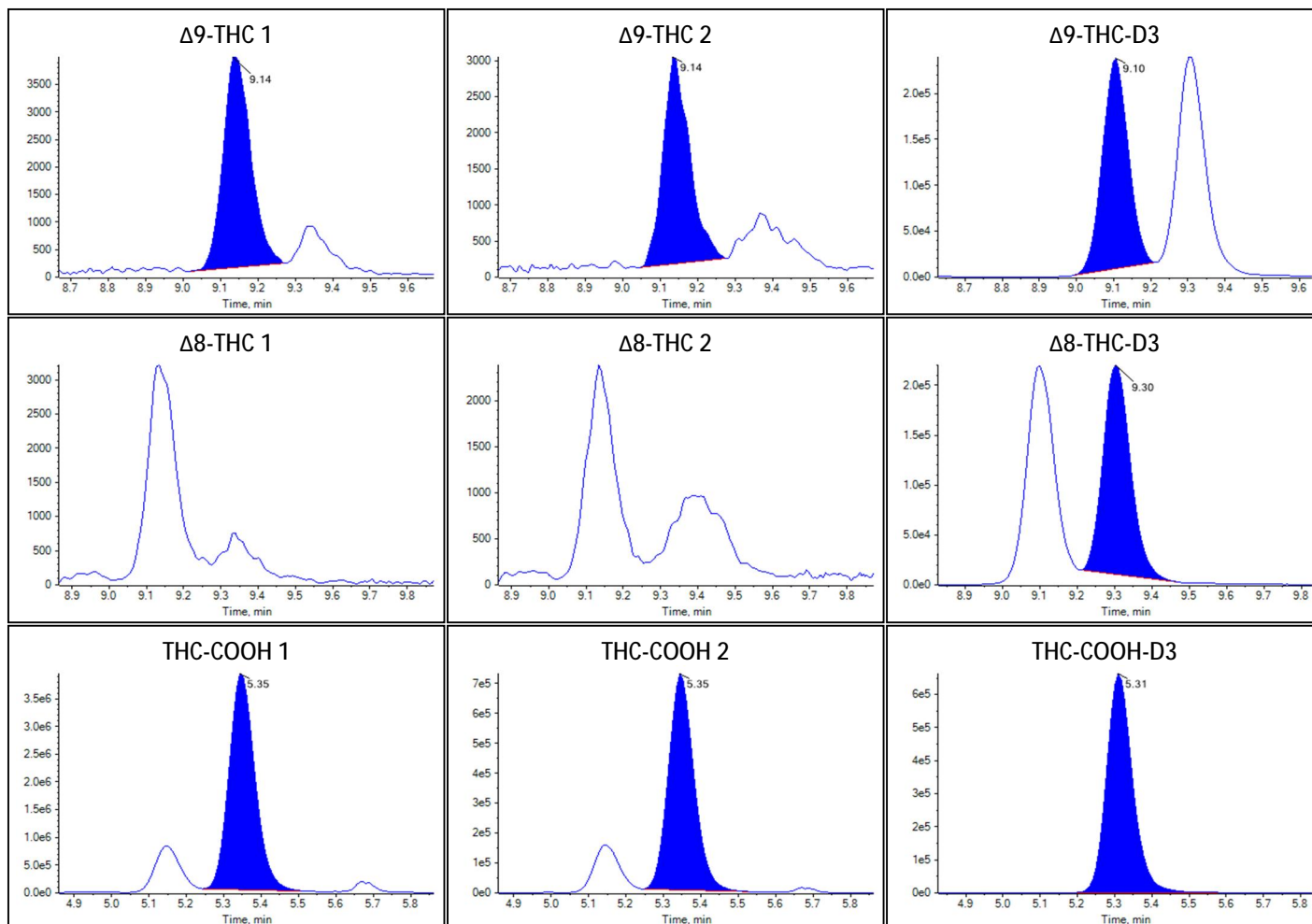
Identification Summary: W13

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.596(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.714(Pass)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.182(Pass)

Peak Review: W13



Peak Review: W13





Sample Summary

Sample Name	W14
Acquisition Date/Time	2022-09-28T22:20:58
Acquisition Method	THC.dam
Batch Name	20220928SK Wisconsin.dab
Results Table	20220928 SK Wisconsin
Sample Type	Unknown
File Name	20220928 SK Wisconsin.wiff
Position	24
Sample Comment	

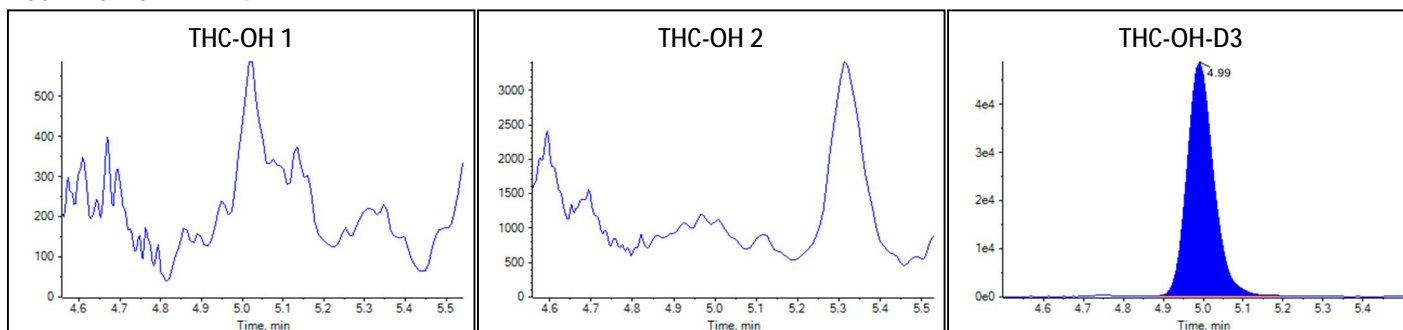
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	0.376	3.796		

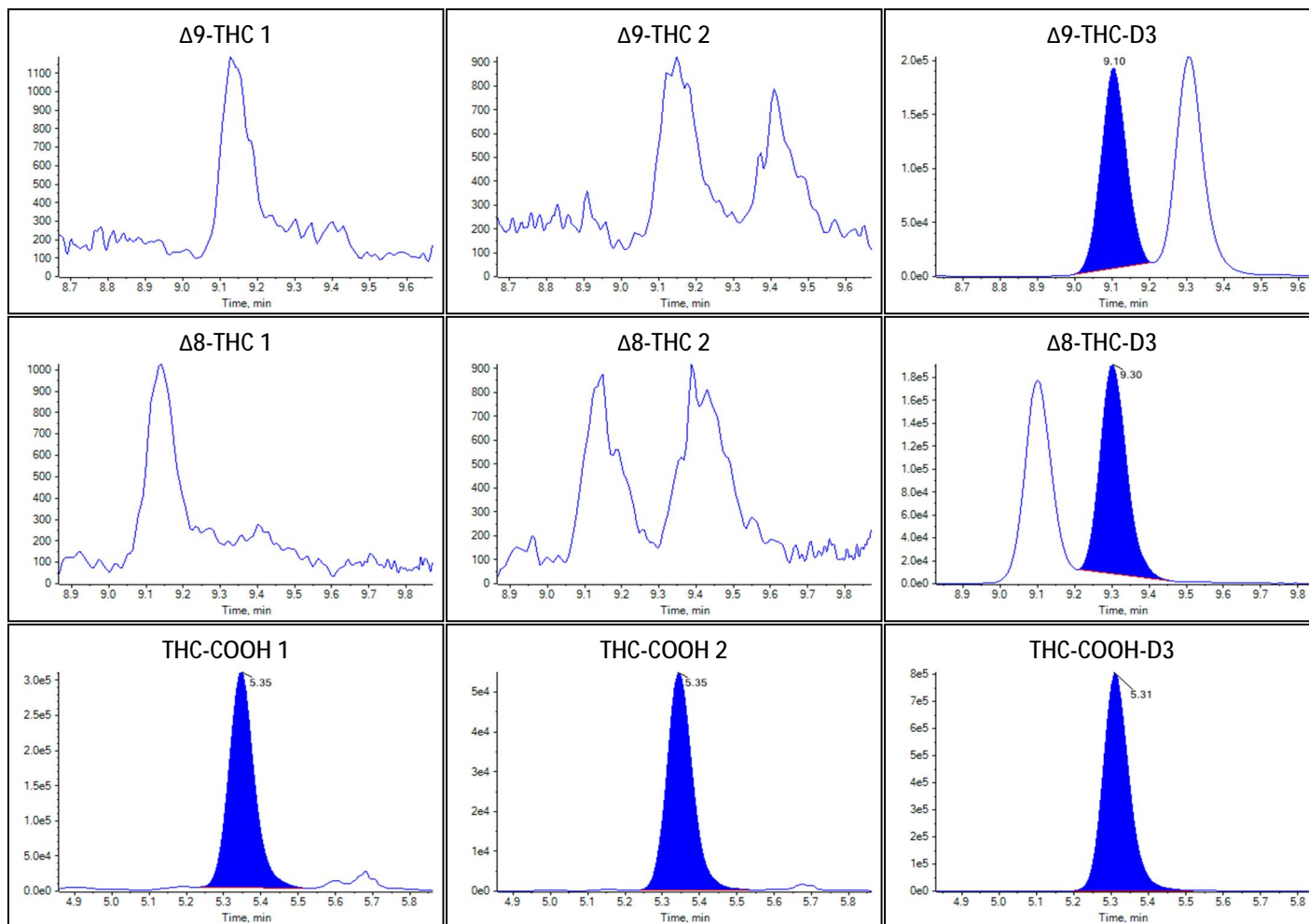
Identification Summary: W14

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ^9 -THC 1	315.1 / 193.1	N/A	
Δ^9 -THC 2	315.1 / 123.0	N/A	N/A
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.180(Pass)

Peak Review: W14



Peak Review: W14





Sample Summary

Sample Name	W15
Acquisition Date/Time	2022-09-28T22:35:03
Acquisition Method	THC.dam
Batch Name	20220928SK Wisconsin.dab
Results Table	20220928 SK Wisconsin
Sample Type	Unknown
File Name	20220928 SK Wisconsin.wiff
Position	25
Sample Comment	

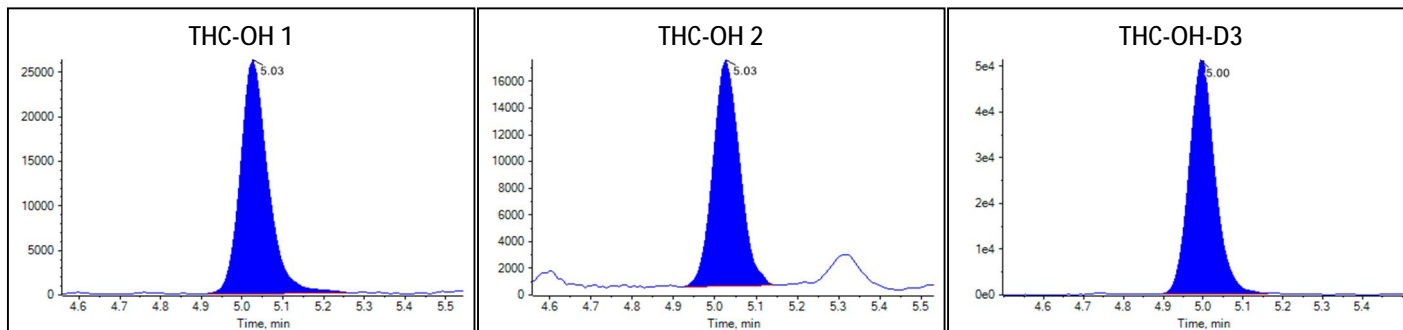
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.541	4.846		
Δ 9-THC	0.451	15.750		
Δ 8-THC	N/A	N/A		
THC-COOH	9.591	100.377		

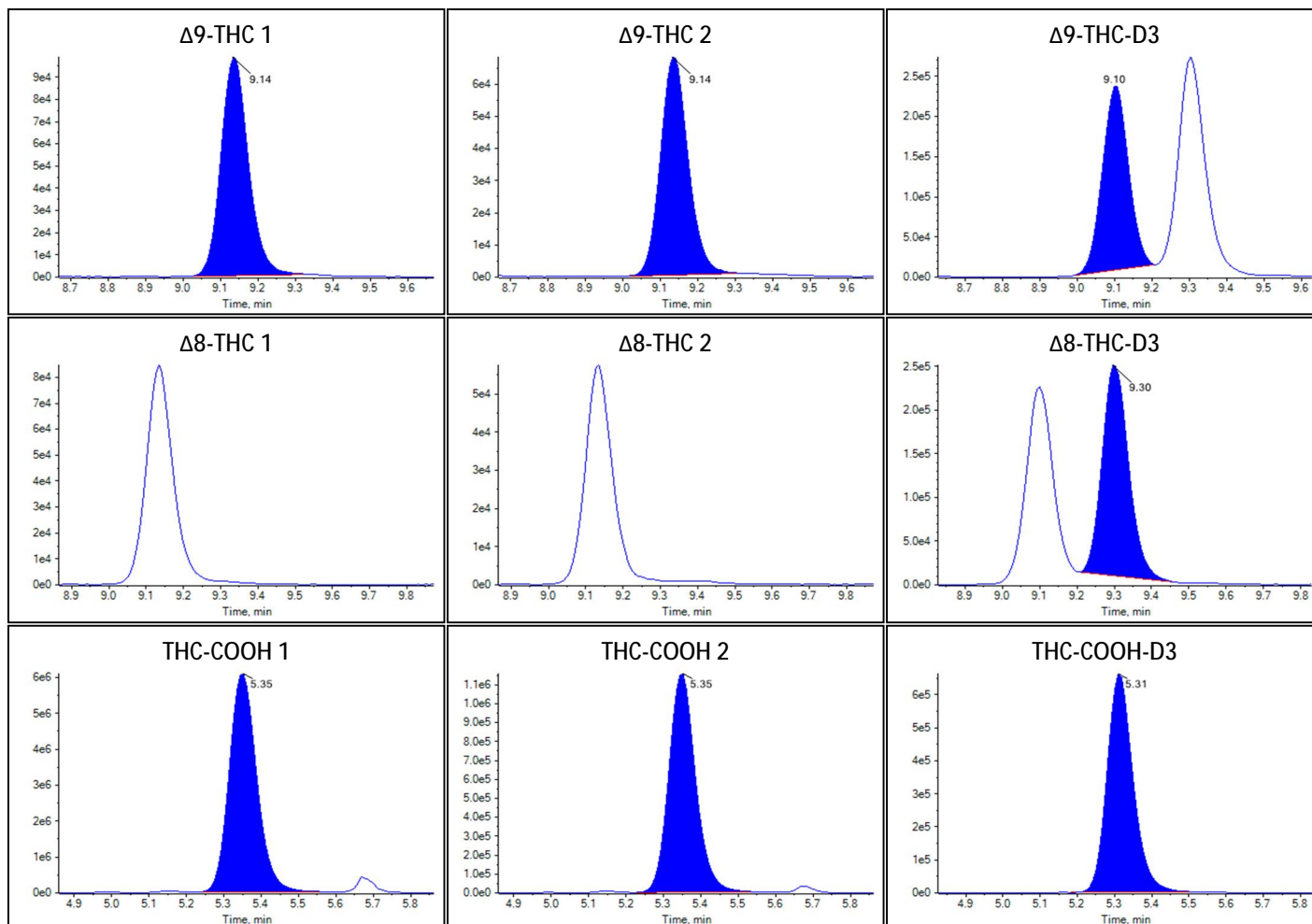
Identification Summary: W15

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.613(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.697(Pass)
Δ 8-THC 1	315.1 / 193.1	N/A	
Δ 8-THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.186(Pass)

Peak Review: W15



Peak Review: W15





Sample Summary

Sample Name	W16
Acquisition Date/Time	2022-09-28T22:49:08
Acquisition Method	THC.dam
Batch Name	20220928SK Wisconsin.dab
Results Table	20220928 SK Wisconsin
Sample Type	Unknown
File Name	20220928 SK Wisconsin.wiff
Position	26
Sample Comment	

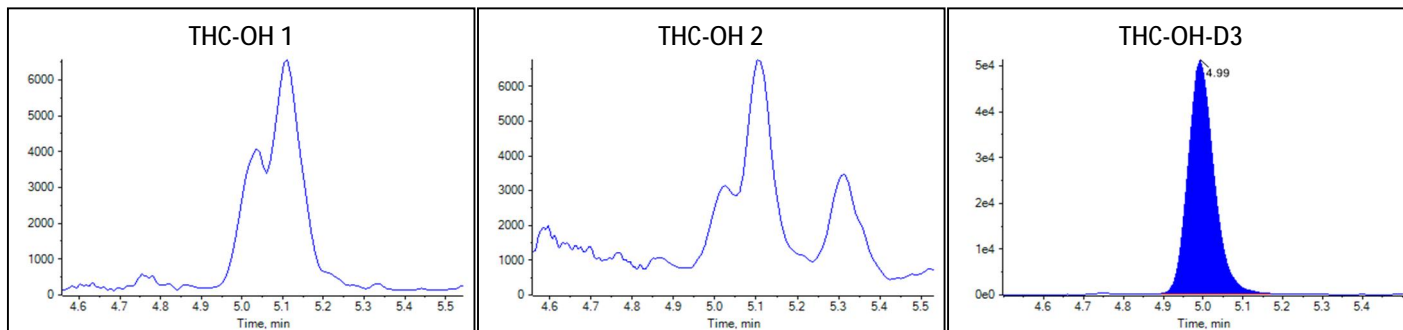
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	0.097	3.424		
Δ^8 -THC	0.470	20.693		
THC-COOH	4.765	49.799		

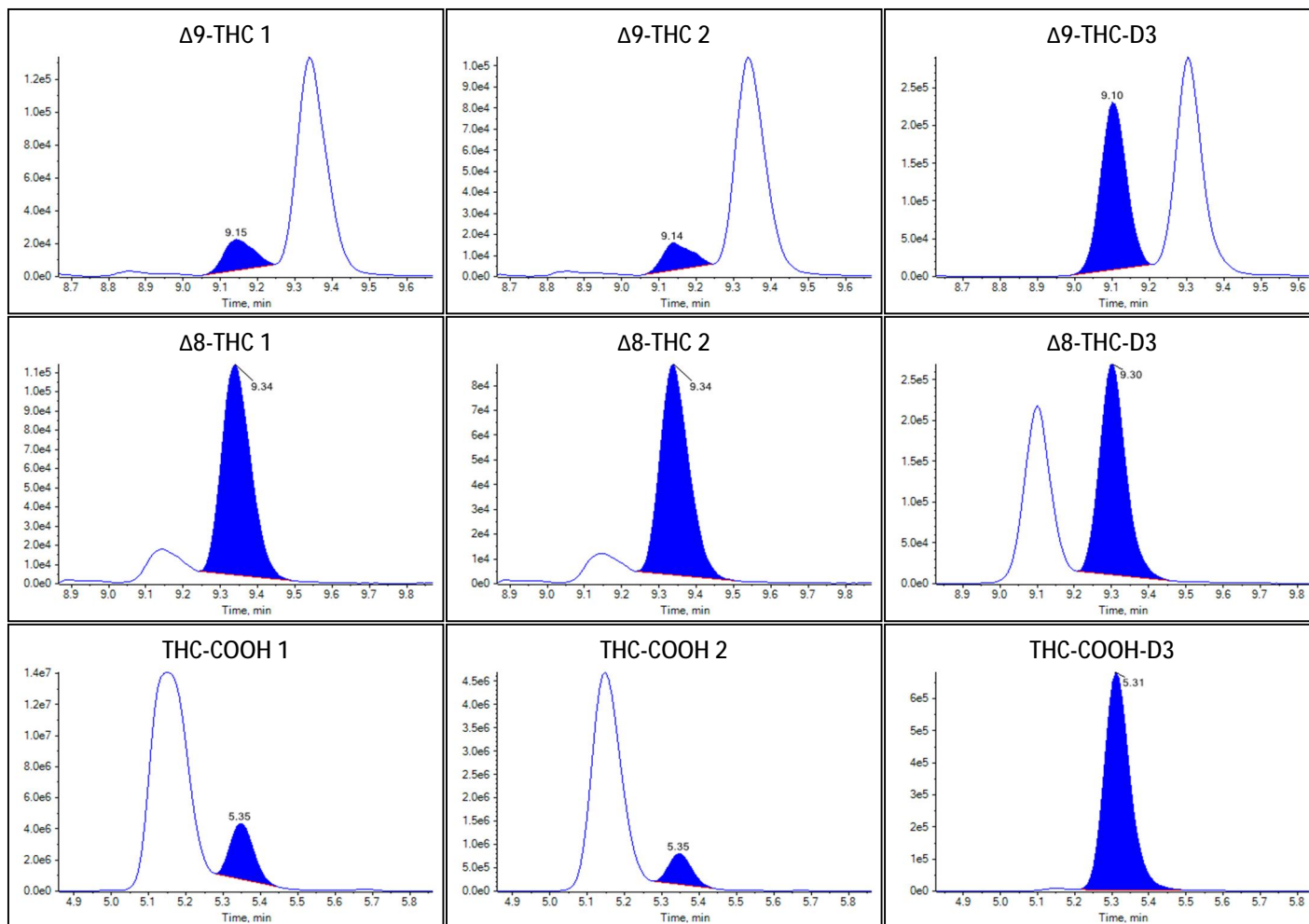
Identification Summary: W16

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.668(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.770(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.180(Pass)

Peak Review: W16



Peak Review: W16





Sample Summary

Sample Name	W17
Acquisition Date/Time	2022-09-28T23:03:17
Acquisition Method	THC.dam
Batch Name	20220928SK Wisconsin.dab
Results Table	20220928 SK Wisconsin
Sample Type	Unknown
File Name	20220928 SK Wisconsin.wiff
Position	27
Sample Comment	

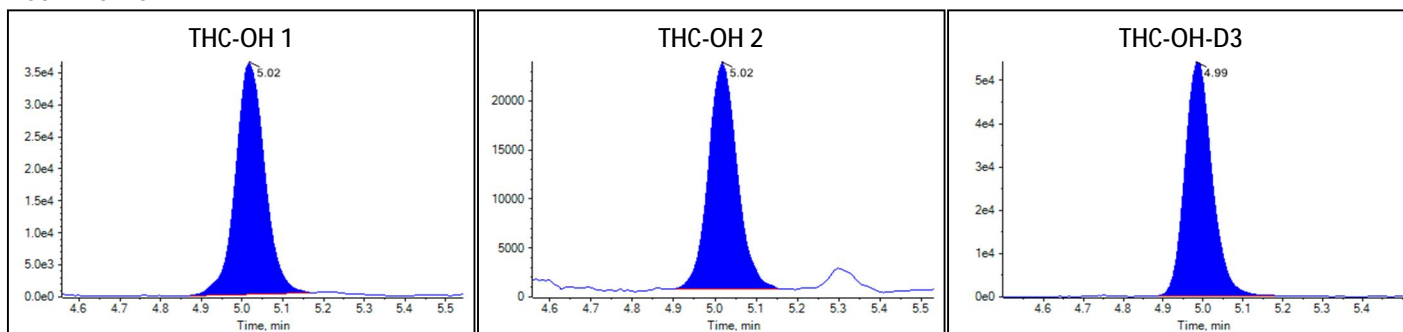
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.711	6.324		
Δ^9 -THC	5.066	203.665		
Δ^8 -THC	N/A	N/A		
THC-COOH	7.692	80.470		

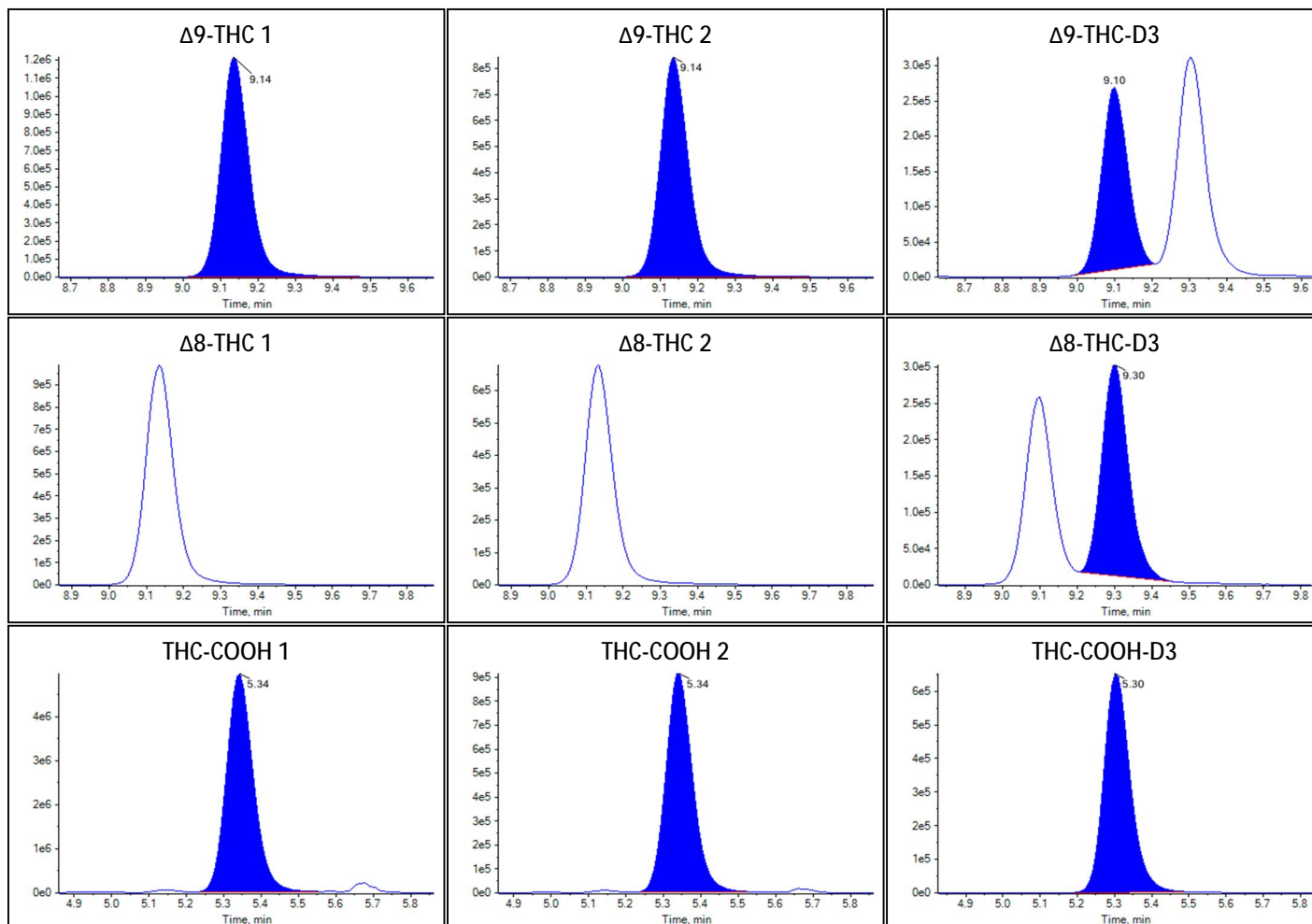
Identification Summary: W17

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.620(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.696(Pass)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.184(Pass)

Peak Review: W17



Peak Review: W17





Sample Summary

Sample Name	W18
Acquisition Date/Time	2022-09-28T23:17:25
Acquisition Method	THC.dam
Batch Name	20220928SK Wisconsin.dab
Results Table	20220928 SK Wisconsin
Sample Type	Unknown
File Name	20220928 SK Wisconsin.wiff
Position	28
Sample Comment	

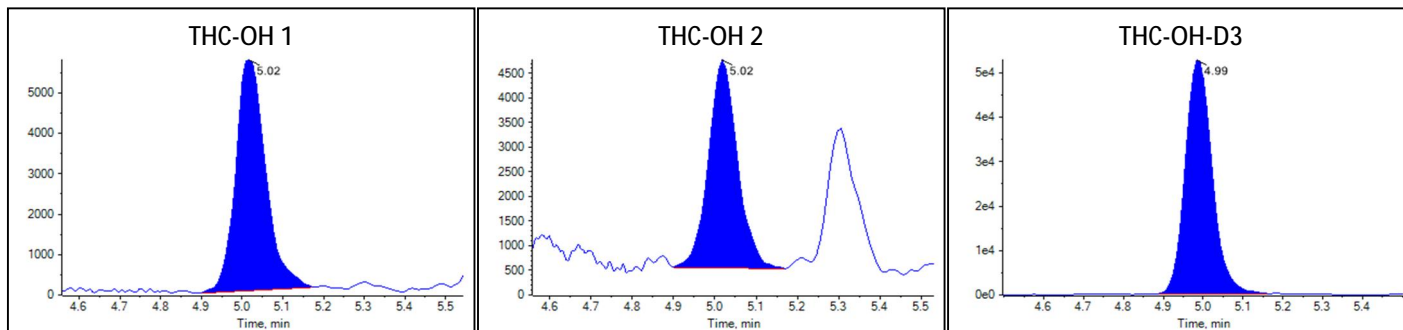
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.119	1.185		
Δ 9-THC	0.069	2.462		
Δ 8-THC	N/A	N/A		
THC-COOH	2.575	26.841		

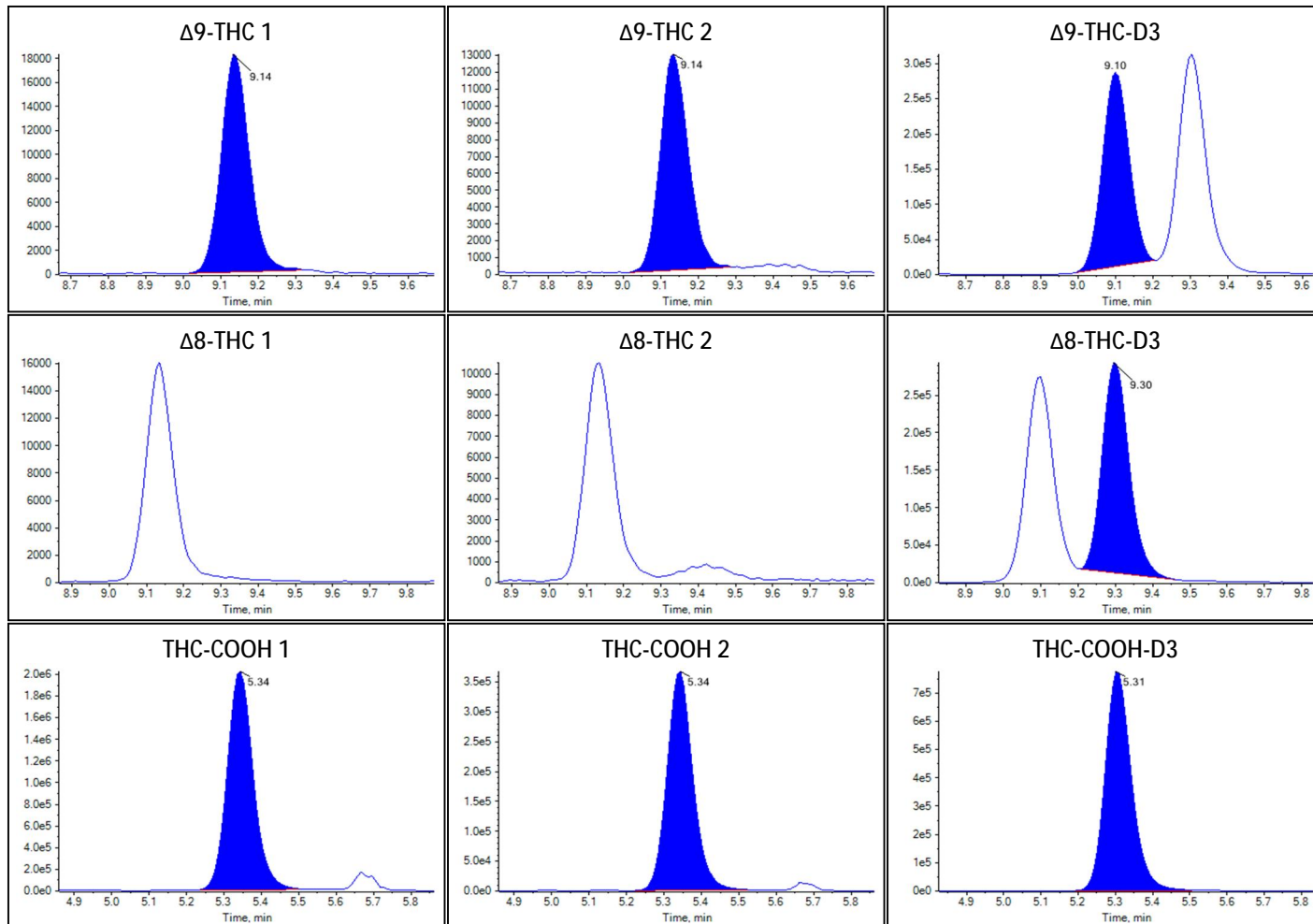
Identification Summary: W18

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.701(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.706(Pass)
Δ 8-THC 1	315.1 / 193.1	N/A	
Δ 8-THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.180(Pass)

Peak Review: W18



Peak Review: W18





Sample Summary

Sample Name	W19
Acquisition Date/Time	2022-09-28T23:31:31
Acquisition Method	THC.dam
Batch Name	20220928SK Wisconsin.dab
Results Table	20220928 SK Wisconsin
Sample Type	Unknown
File Name	20220928 SK Wisconsin.wiff
Position	29
Sample Comment	

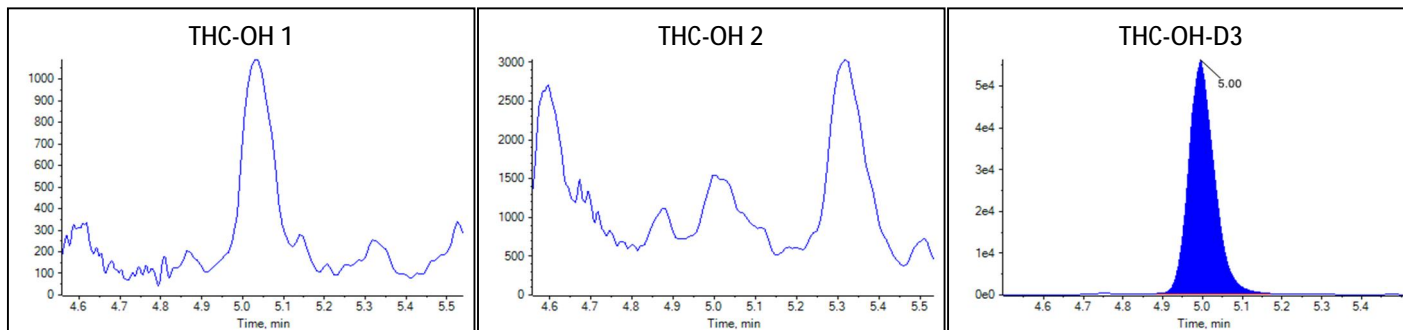
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	0.011	0.457		
Δ^8 -THC	N/A	N/A		
THC-COOH	0.323	3.240		

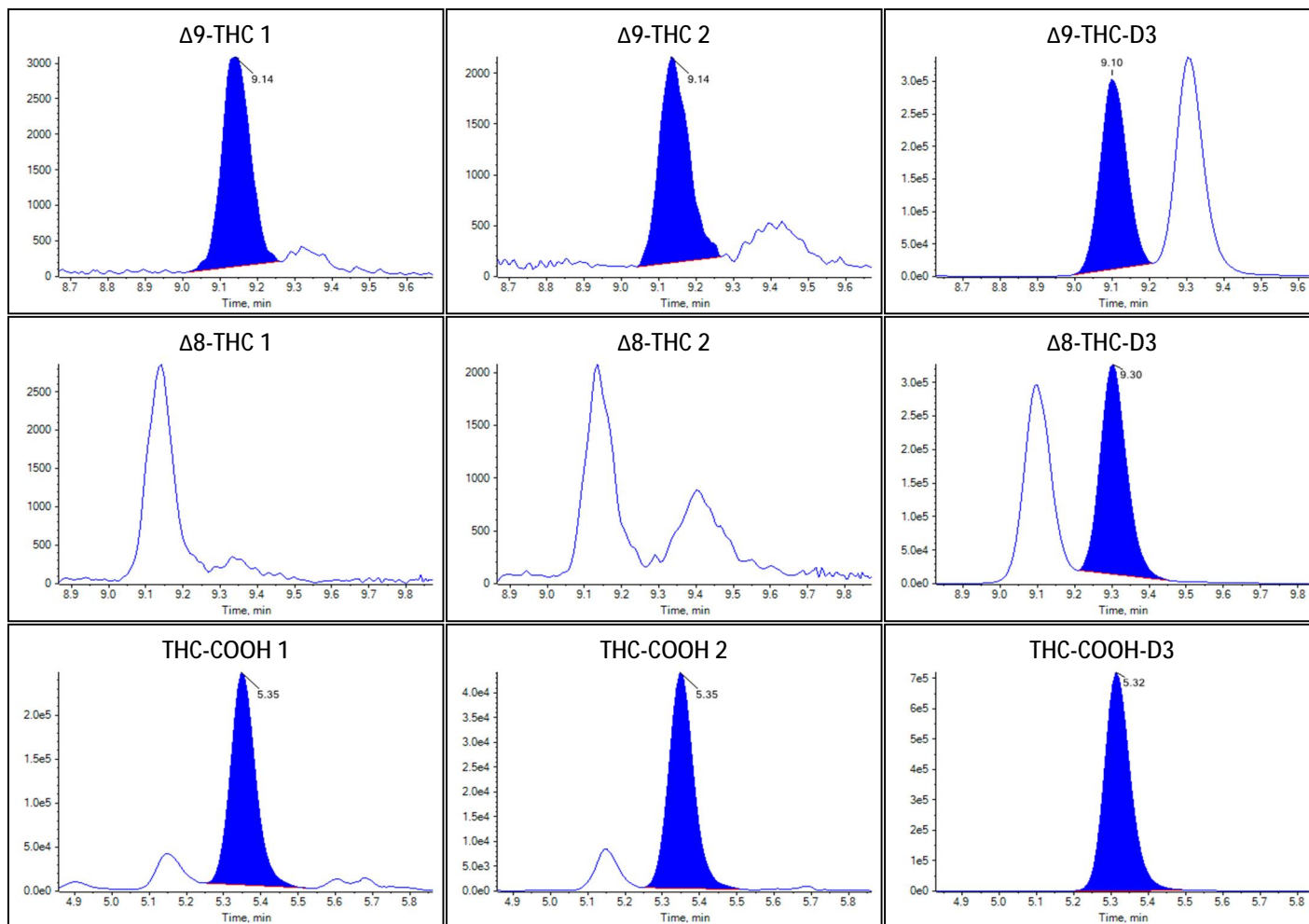
Identification Summary: W19

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.700(Pass)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.180(Pass)

Peak Review: W19



Peak Review: W19





Sample Summary

Sample Name	Low
Acquisition Date/Time	2022-09-28T23:45:36
Acquisition Method	THC.dam
Batch Name	20220928SK Wisconsin.dab
Results Table	20220928 SK Wisconsin
Sample Type	Quality Control
File Name	20220928 SK Wisconsin.wiff
Position	9
Sample Comment	

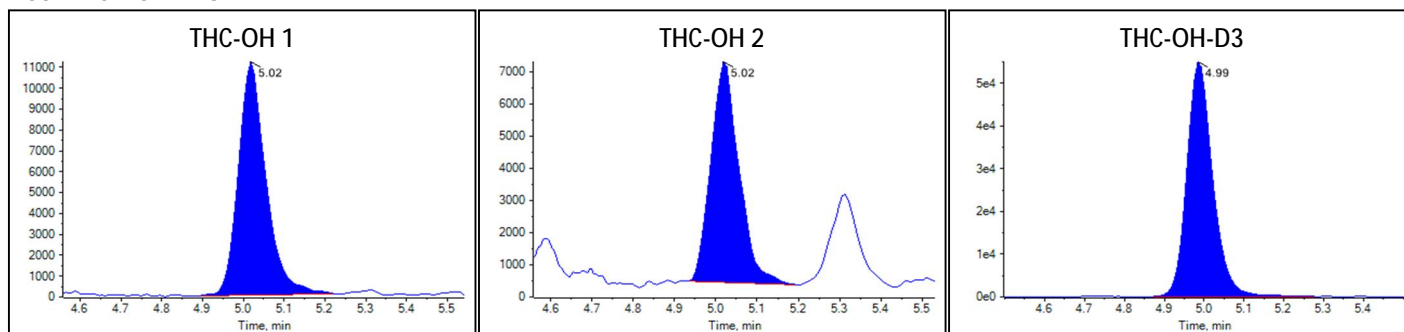
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.213	1.996		
Δ^9 -THC	0.086	3.054		
Δ^8 -THC	0.064	2.915		
THC-COOH	0.773	7.962		

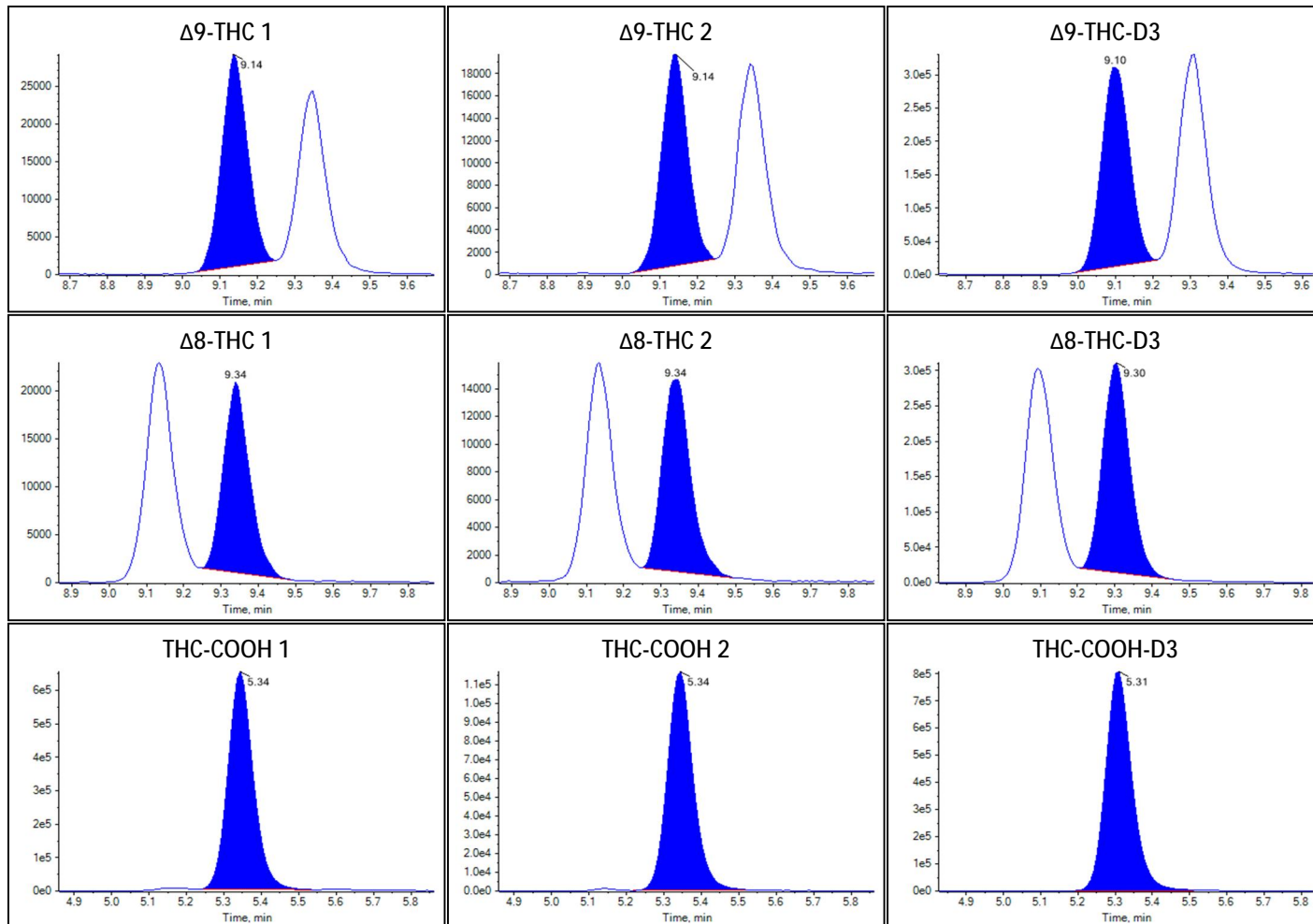
Identification Summary: Low

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.619(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.687(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.765(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.182(Pass)

Peak Review: Low



Peak Review: Low





Sample Summary

Sample Name	W20
Acquisition Date/Time	2022-09-28T23:59:41
Acquisition Method	THC.dam
Batch Name	20220928SK Wisconsin.dab
Results Table	20220928 SK Wisconsin
Sample Type	Unknown
File Name	20220928 SK Wisconsin.wiff
Position	30
Sample Comment	

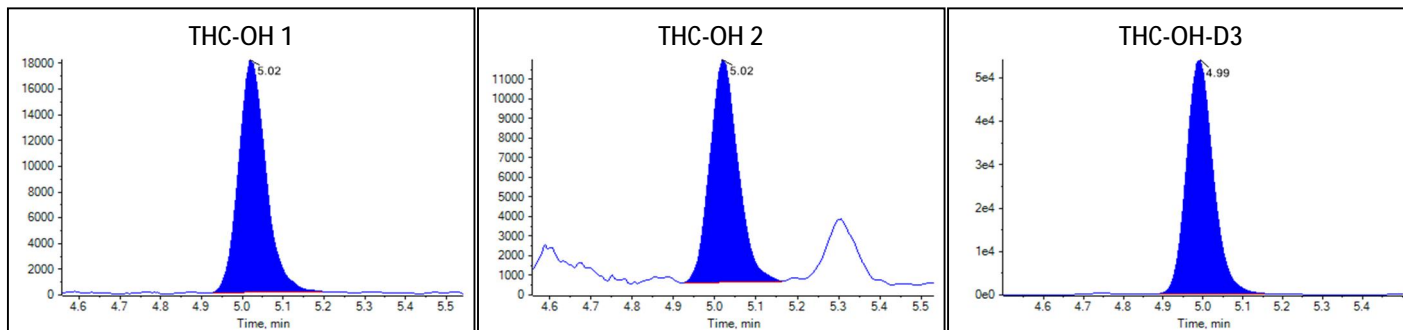
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.336	3.064		
Δ^9 -THC	0.608	21.278		
Δ^8 -THC	N/A	N/A		
THC-COOH	8.534	89.295		

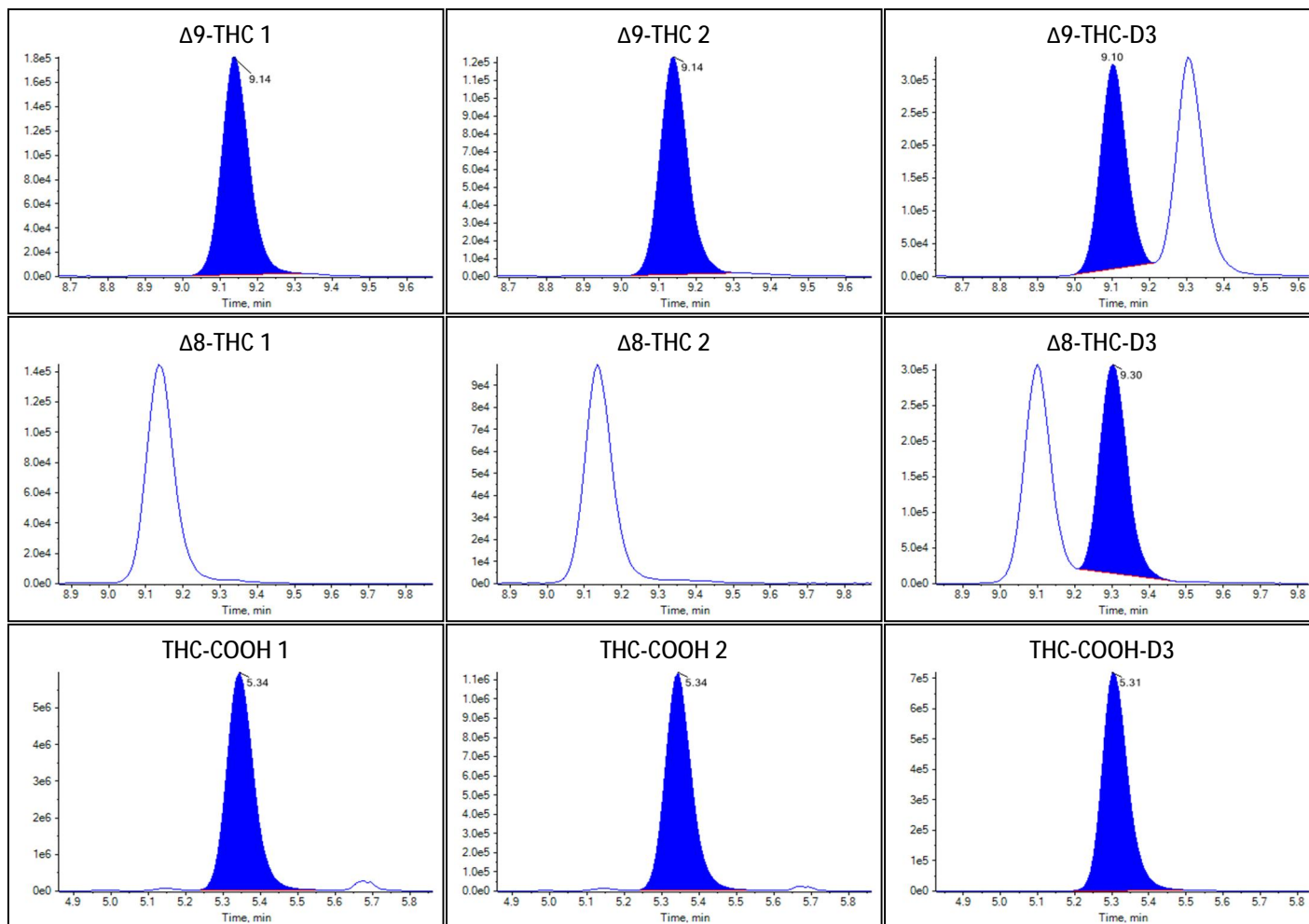
Identification Summary: W20

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.640(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.685(Pass)
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.186(Pass)

Peak Review: W20



Peak Review: W20





Sample Summary

Sample Name	High
Acquisition Date/Time	2022-09-29T00:13:47
Acquisition Method	THC.dam
Batch Name	20220928SK Wisconsin.dab
Results Table	20220928 SK Wisconsin
Sample Type	Quality Control
File Name	20220928 SK Wisconsin.wiff
Position	10
Sample Comment	

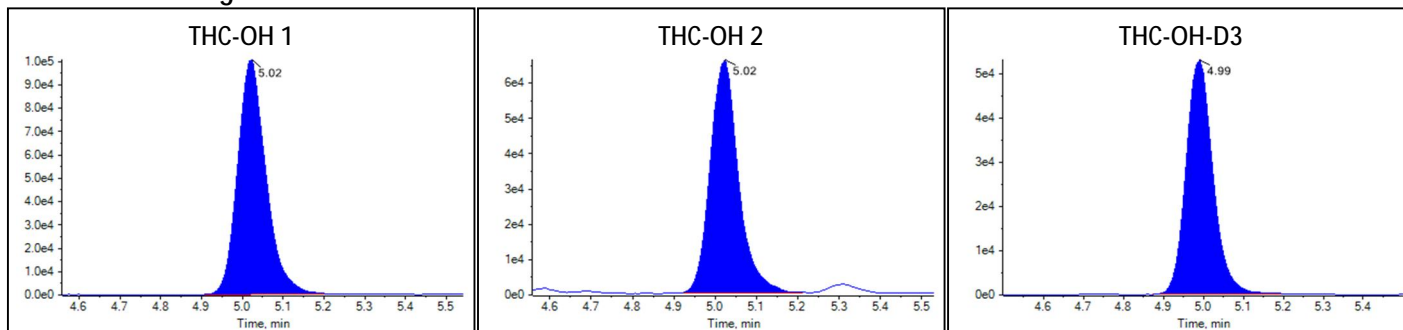
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.956	17.130		
Δ 9-THC	2.406	88.237		
Δ 8-THC	1.812	90.604		
THC-COOH	7.530	78.769		

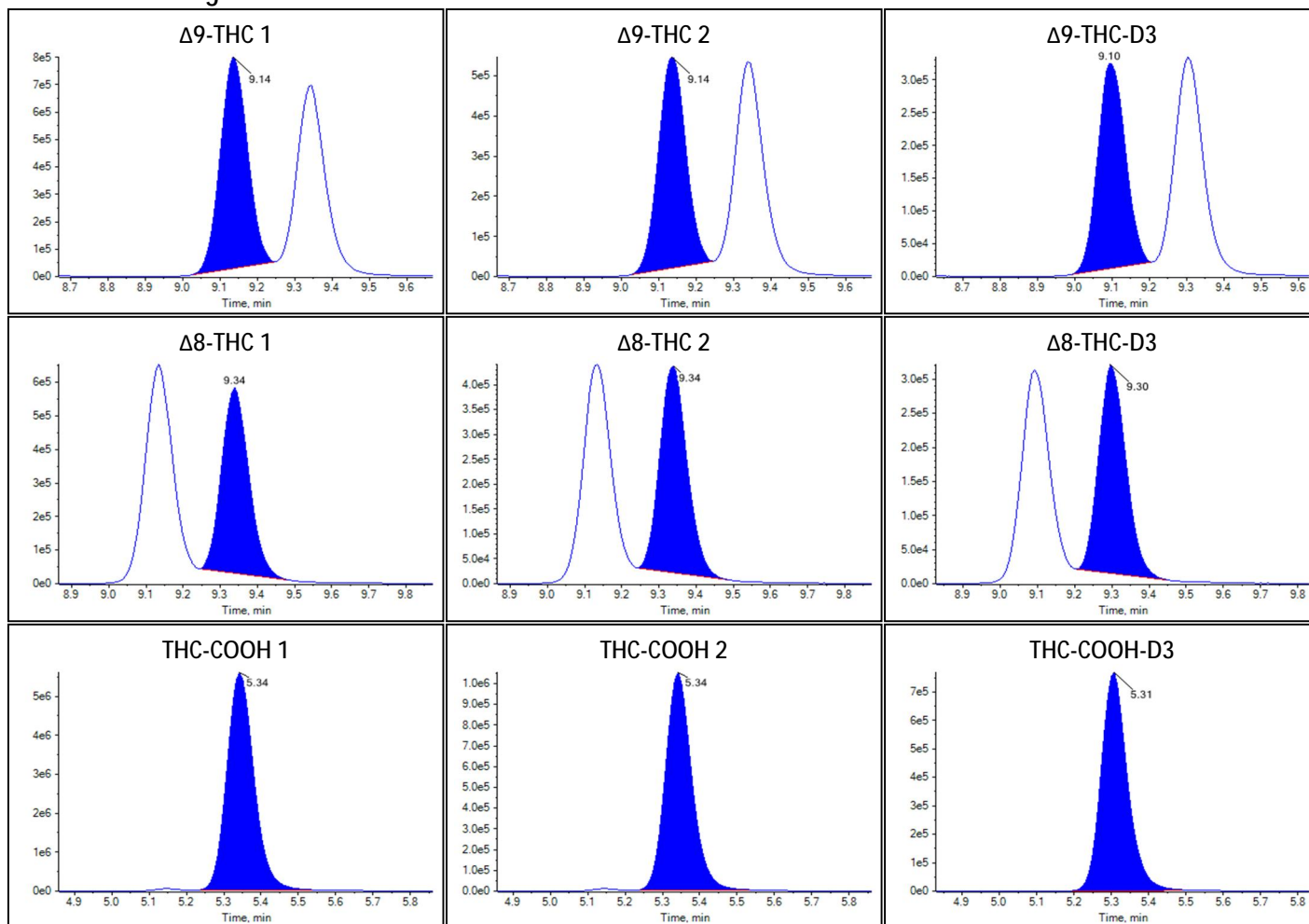
Identification Summary: High

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.644(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.693(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.757(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.183(Pass)

Peak Review: High



Peak Review: High



SIMULATED CASEWORK BATCH



Toxicology Unit
Calibration/Control Report
Quantitative Analysis

Batch Summary

Acquisition Method	THC.dam
Project	THC
Result Table	20220922LA Simulated Batch

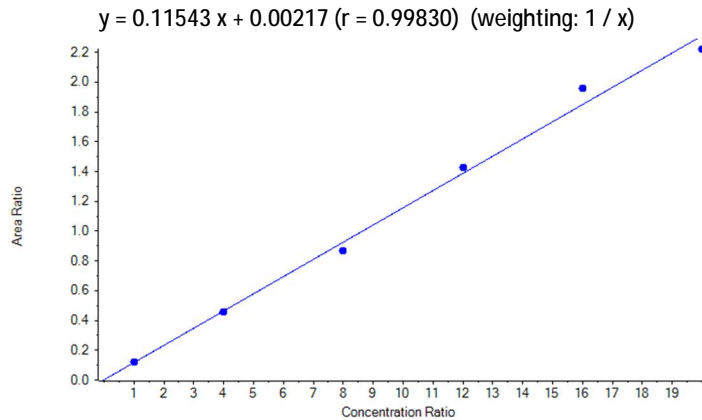
Result Table List

Sample Name	Sample Type	Position	Acquisition Time	Sample Comment
Standard 1	Standard	1	2022-09-22 15:43:16	
Standard 2	Standard	2	2022-09-22 15:57:21	
Standard 3	Standard	3	2022-09-22 16:11:26	
Standard 4	Standard	4	2022-09-22 16:25:32	
Standard 5	Standard	5	2022-09-22 16:39:34	
Standard 6	Standard	6	2022-09-22 16:53:39	
Negative	Quality Control	7	2022-09-22 17:07:45	
Medium	Quality Control	8	2022-09-22 17:21:50	
5 µL injection	Unknown	1	2022-09-22 17:35:56	
Case 1	Unknown	11	2022-09-22 17:50:01	
Case 2	Unknown	12	2022-09-22 18:04:06	
Case 3	Unknown	13	2022-09-22 18:18:12	
Case 4	Unknown	14	2022-09-22 18:32:17	
Case 5	Unknown	15	2022-09-22 18:46:23	
Case 6	Unknown	16	2022-09-22 19:00:28	
Case 7	Unknown	17	2022-09-22 19:14:33	
Case 8	Unknown	18	2022-09-22 19:28:39	
Case 9	Unknown	19	2022-09-22 19:42:44	
Case 10	Unknown	20	2022-09-22 19:56:50	
Case 11	Unknown	21	2022-09-22 20:10:55	
Case 12	Unknown	22	2022-09-22 20:25:00	
Case 13	Unknown	23	2022-09-22 20:39:06	
Case 14	Unknown	24	2022-09-22 20:53:11	
Case 15	Unknown	25	2022-09-22 21:07:17	
Case 16	Unknown	26	2022-09-22 21:21:22	
Case 17	Unknown	27	2022-09-22 21:35:27	
Case 18	Unknown	28	2022-09-22 21:49:36	
Case 19	Unknown	29	2022-09-22 22:03:41	
Low	Quality Control	9	2022-09-22 22:17:47	
Case 20	Unknown	30	2022-09-22 22:31:52	
Case 21	Unknown	31	2022-09-22 22:45:57	
Case 22	Unknown	32	2022-09-22 23:00:06	
Case 23	Unknown	33	2022-09-22 23:14:11	
Case 24	Unknown	34	2022-09-22 23:28:20	
Case 25	Unknown	35	2022-09-22 23:42:25	
Case 26	Unknown	36	2022-09-22 23:56:30	
Case 27	Unknown	37	2022-09-23 00:10:36	
Case 28	Unknown	38	2022-09-23 00:24:44	
Case 29	Unknown	39	2022-09-23 00:38:49	

Result Table List

Sample Name	Sample Type	Position	Acquisition Time	Sample Comment
Case 30	Unknown	40	2022-09-23 00:52:55	
Case 31	Unknown	41	2022-09-23 01:07:00	
Case 32	Unknown	42	2022-09-23 01:21:06	
Case 33	Unknown	43	2022-09-23 01:35:14	
Case 34	Unknown	44	2022-09-23 01:49:20	
Case 35	Unknown	45	2022-09-23 02:03:25	
Case 36	Unknown	46	2022-09-23 02:17:30	
Case 37	Unknown	47	2022-09-23 02:31:36	
Case 38	Unknown	48	2022-09-23 02:45:41	
High	Quality Control	10	2022-09-23 02:59:47	

Calibration Summary: THC-OH



Analyte Transition Mass	
Internal Standard	THC-OH-D3
I.S. Transition Mass	334.1 / 196.1
THC-OH 1	331.1 / 193.1
THC-OH 2	331.1 / 105.1
Relative Retention time: Expected (Acceptance Range)	
THC-OH 1	1.007 (0.982-1.032)
THC-OH 2	1.006 (0.981-1.031)
Ion Ratio: Expected (Acceptance Range)	
THC-OH 2	0.602 (0.482-0.722)
THC-OH comment	

Quantitative Summary: THC-OH

Sample Name	Area Ratio	Actual Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
Standard 1	0.1209	1.00	1.029	102.91
Standard 2	0.4553	4.00	3.925	98.13
Standard 3	0.8692	8.00	7.512	93.90
Standard 4	1.4290	12.00	12.361	103.01
Standard 5	1.9590	16.00	16.954	105.96
Standard 6	2.2210	20.00	19.219	96.10
Negative	N/A	0.00	N/A	N/A
Medium	1.1700	10.00	10.121	101.21
Low	0.2322	2.00	1.993	99.65
High	2.0540	18.00	17.778	98.77

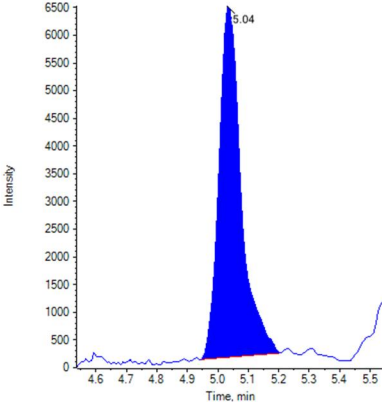
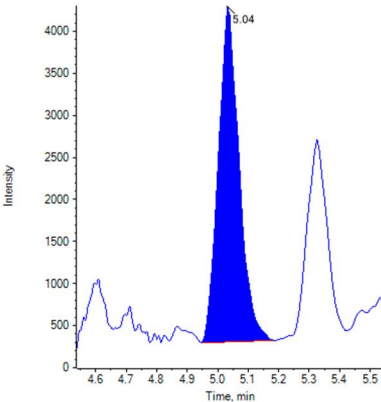
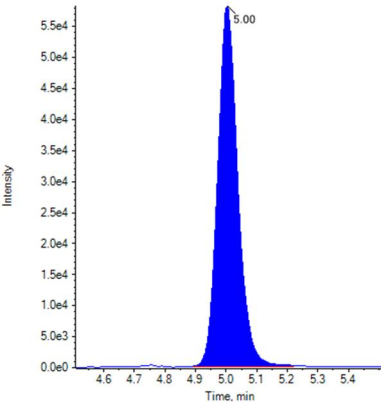
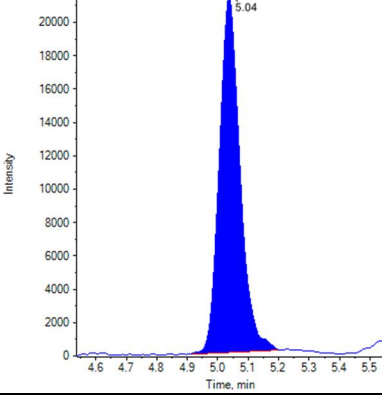
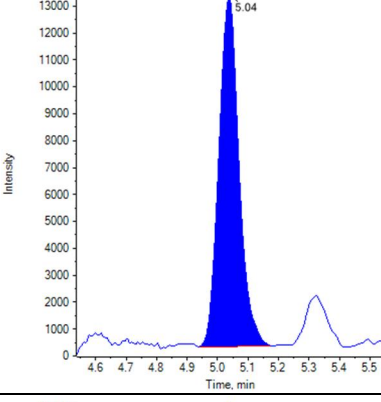
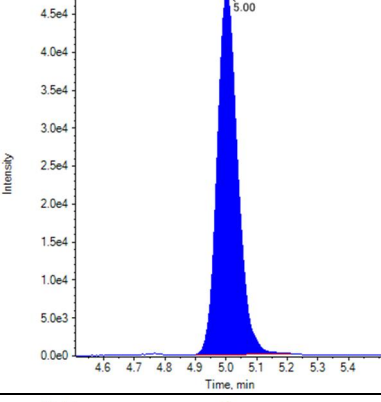
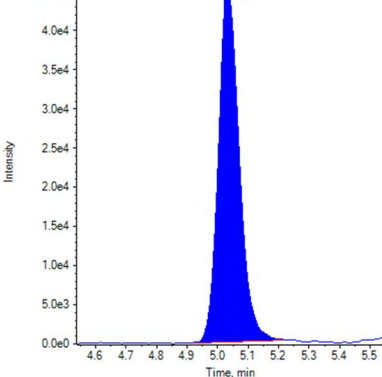
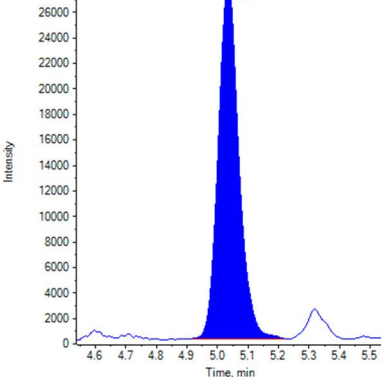
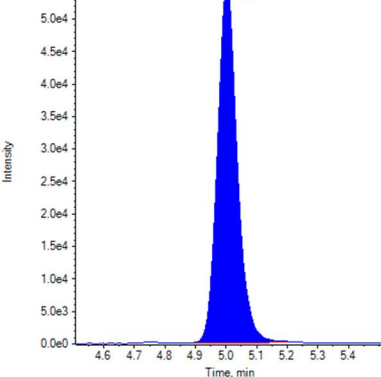
Identification Summary: THC-OH

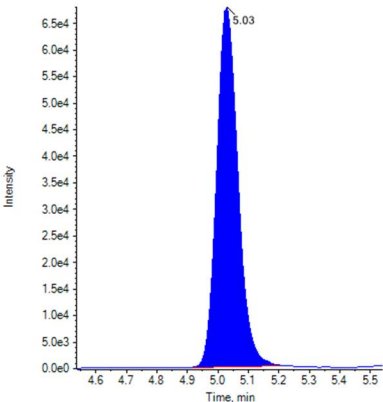
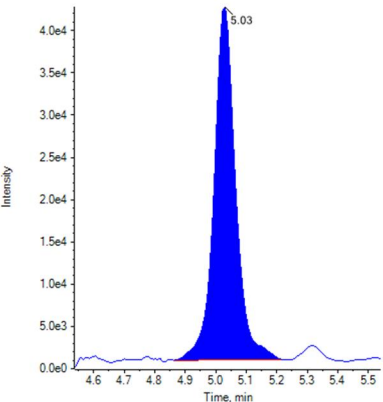
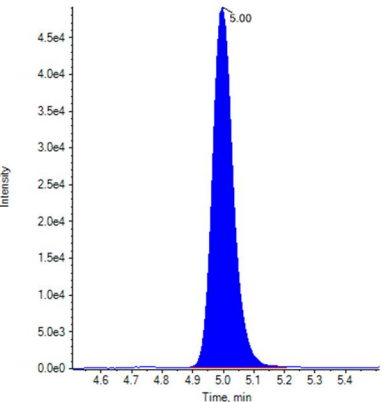
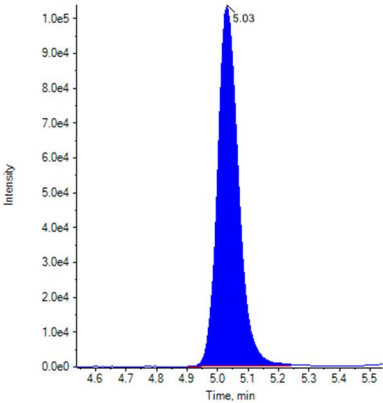
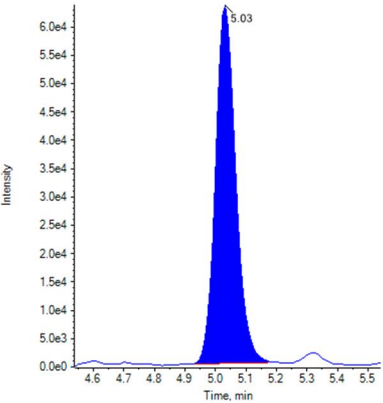
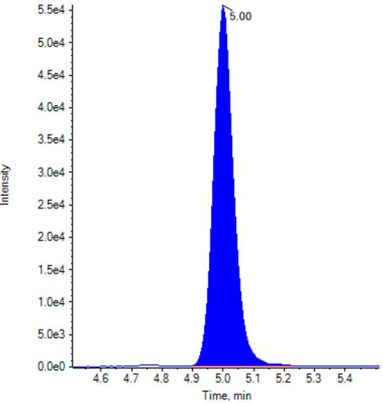
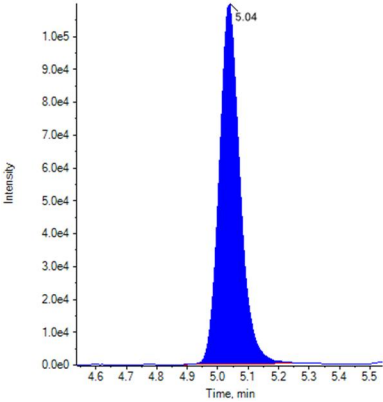
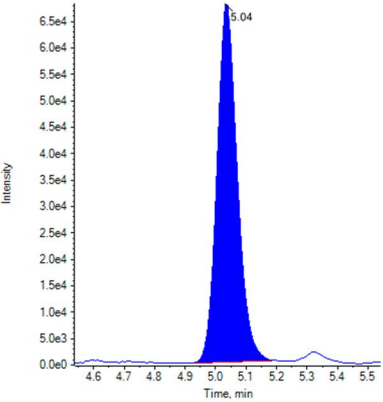
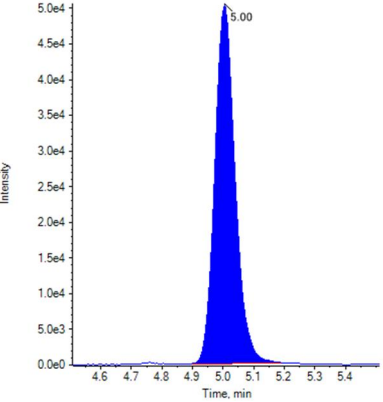
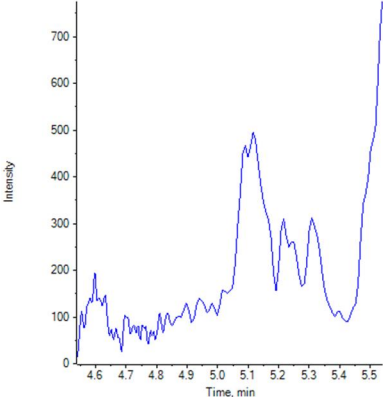
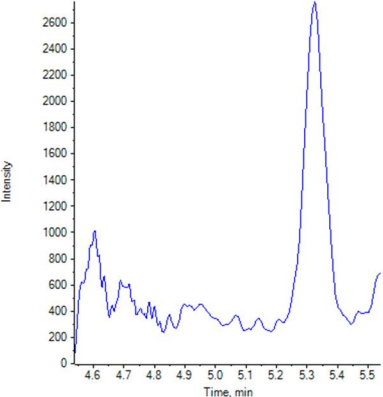
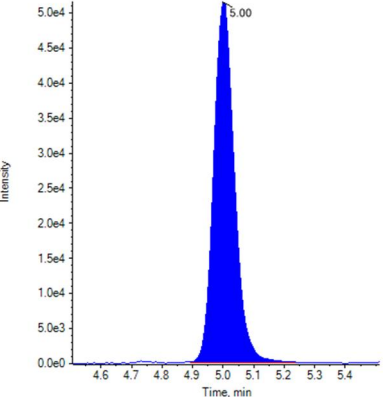
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 1	THC-OH 1	1.010 (Pass)	0.585 (Pass)
	THC-OH 2	1.010 (Pass)	
Standard 2	THC-OH 1	1.010 (Pass)	0.591 (Pass)
	THC-OH 2	1.010 (Pass)	
Standard 3	THC-OH 1	1.010 (Pass)	0.608 (Pass)
	THC-OH 2	1.010 (Pass)	
Standard 4	THC-OH 1	1.010 (Pass)	0.629 (Pass)
	THC-OH 2	1.010 (Pass)	
Standard 5	THC-OH 1	1.010 (Pass)	0.592 (Pass)
	THC-OH 2	1.010 (Pass)	
Standard 6	THC-OH 1	1.010 (Pass)	0.608 (Pass)
	THC-OH 2	1.010 (Pass)	
Negative	THC-OH 1	N/A ()	N/A ()

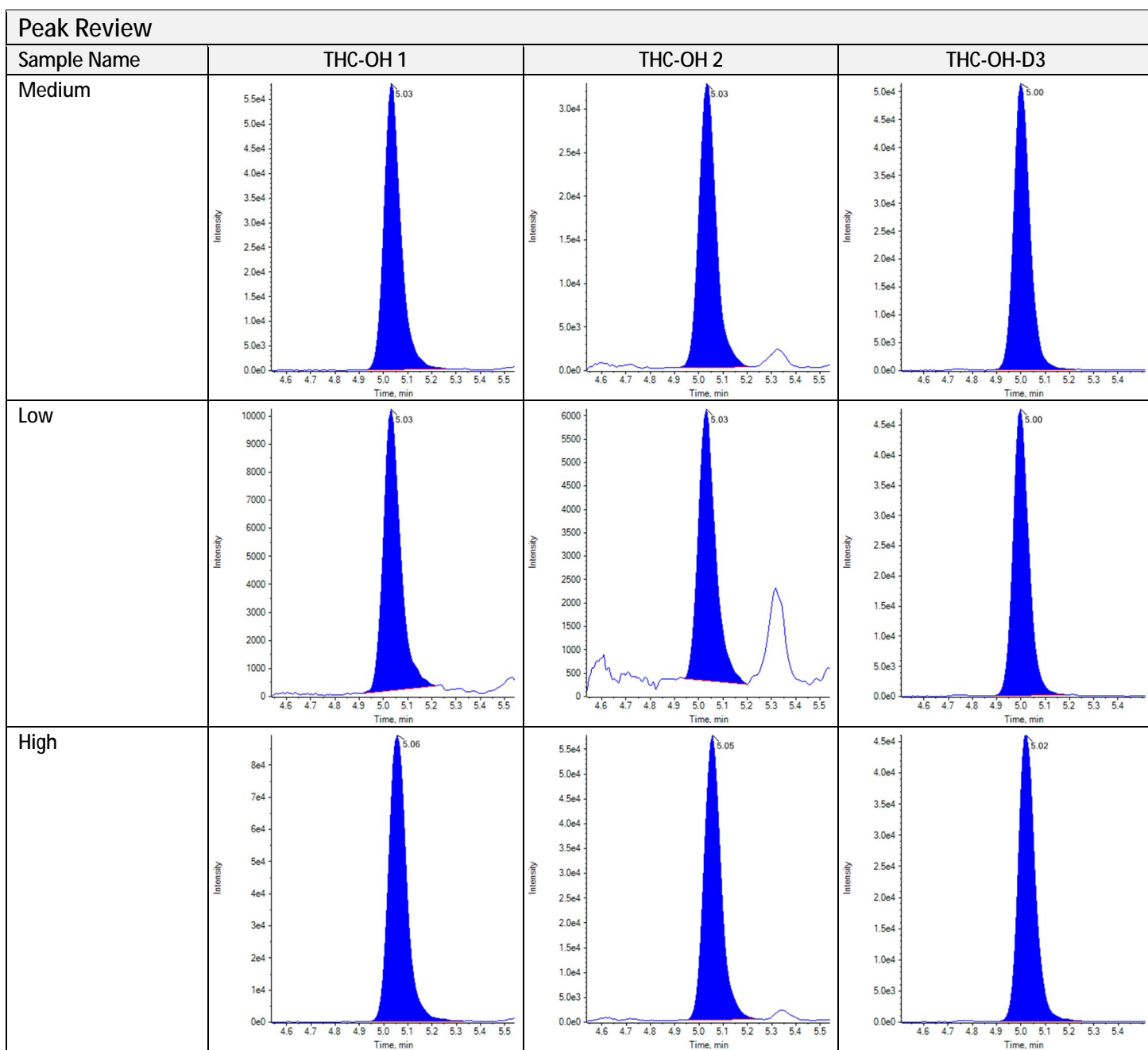
Identification Summary: THC-OH

Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
	THC-OH 2	N/A ()	
Medium	THC-OH 1 THC-OH 2	1.010 (Pass) 1.010 (Pass)	0.580 (Pass)
Low	THC-OH 1 THC-OH 2	1.010 (Pass) 1.010 (Pass)	0.577 (Pass)
High	THC-OH 1 THC-OH 2	1.010 (Pass) 1.010 (Pass)	0.610 (Pass)

Peak Review

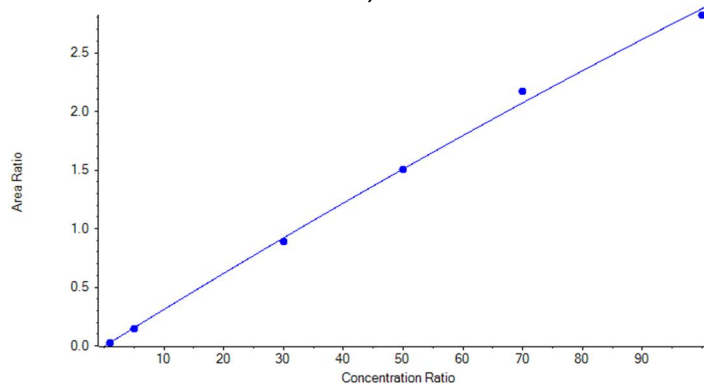
Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3
Standard 1			
Standard 2			
Standard 3			

Peak Review			
Sample Name	THC-OH 1	THC-OH 2	THC-OH-D3
Standard 4			
Standard 5			
Standard 6			
Negative			



Calibration Summary: $\Delta 9$ -THC

$$y = -2.88572e-5 x^2 + 0.03170 x + -0.00456 \quad (r = 0.99947) \quad (\text{weighting: } 1/x)$$



Analyte Transition Mass	
Internal Standard	$\Delta 9$ -THC-D3
I.S. Transition Mass	318.1 / 123.0
$\Delta 9$ -THC 1	315.1 / 193.1
$\Delta 9$ -THC 2	315.1 / 123.0
Relative Retention time: Expected (Acceptance Range)	
$\Delta 9$ -THC 1	1.004 (0.979-1.029)
$\Delta 9$ -THC 2	1.004 (0.979-1.029)
Ion Ratio: Expected (Acceptance Range)	
$\Delta 9$ -THC 2	0.688 (0.550-0.826)
$\Delta 9$ -THC comment	

Quantitative Summary: $\Delta 9$ -THC

Sample Name	Area Ratio	Actual Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
Standard 1	0.0293	1.00	1.068	106.76
Standard 2	0.1435	5.00	4.693	93.85
Standard 3	0.8924	30.00	29.069	96.90
Standard 4	1.5040	50.00	49.864	99.73
Standard 5	2.1680	70.00	73.455	104.94
Standard 6	2.8210	100.00	97.851	97.85
Negative	N/A	0.00	N/A	N/A
Medium	1.1840	40.00	38.868	97.17
Low	0.0924	3.00	3.067	102.25
High	2.4460	80.00	83.685	104.61

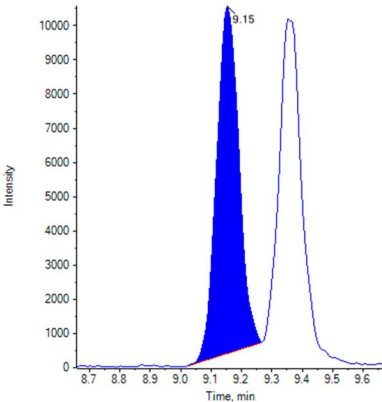
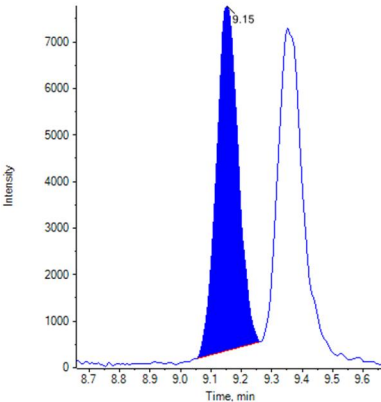
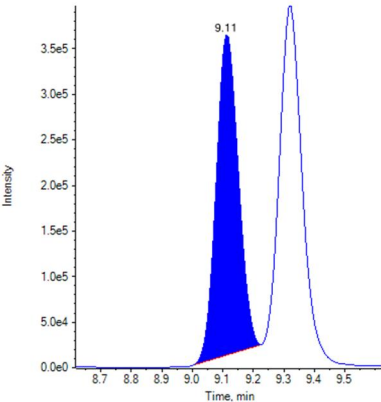
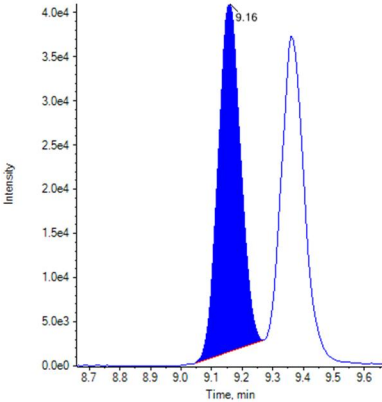
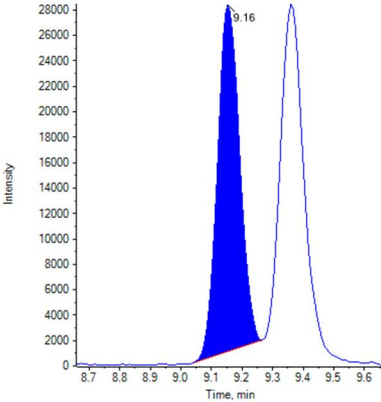
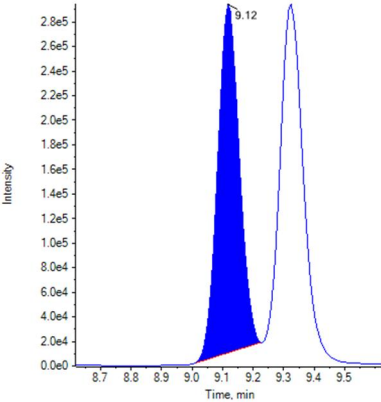
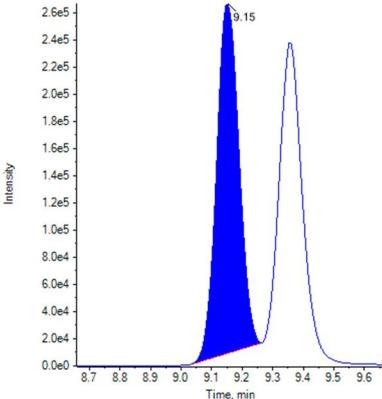
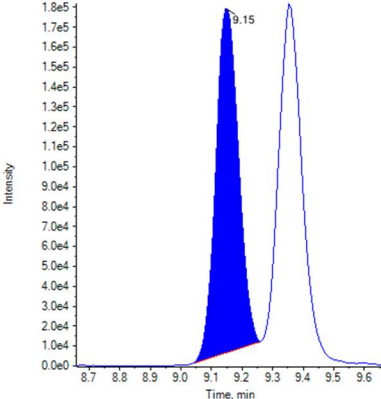
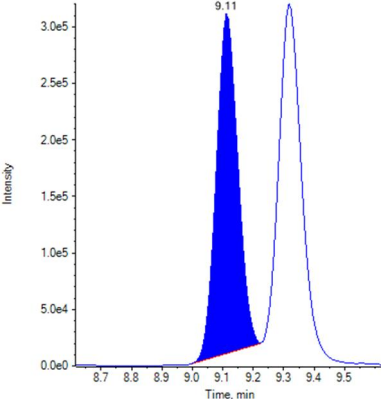
Identification Summary: $\Delta 9$ -THC

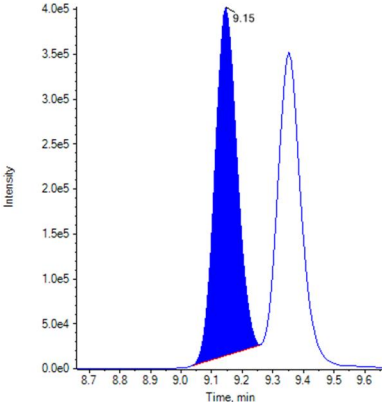
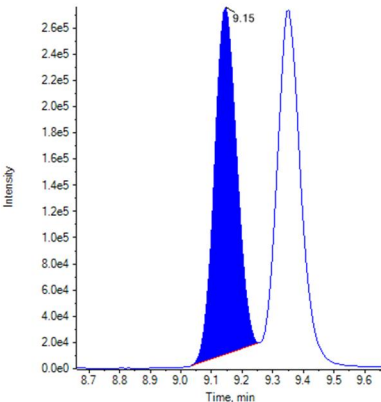
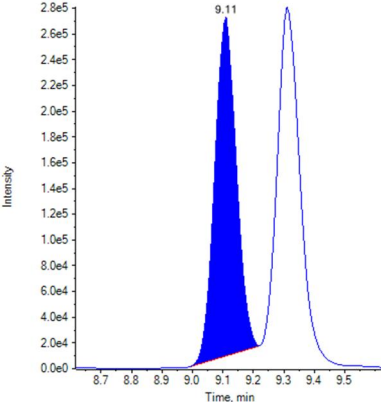
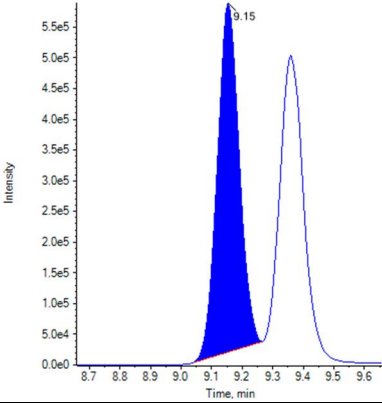
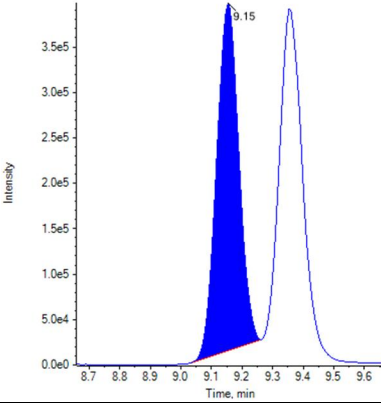
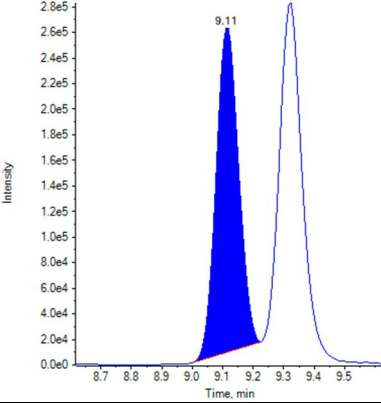
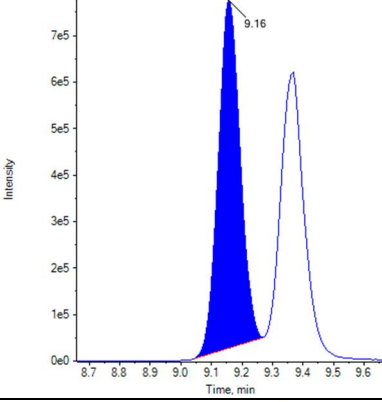
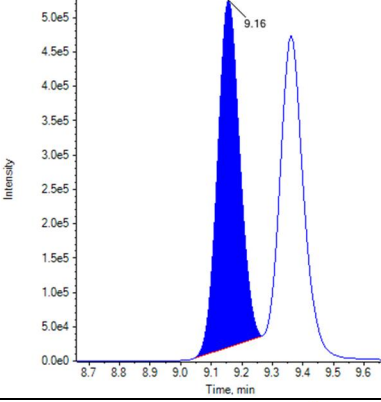
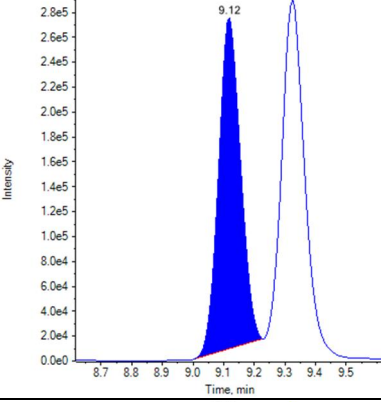
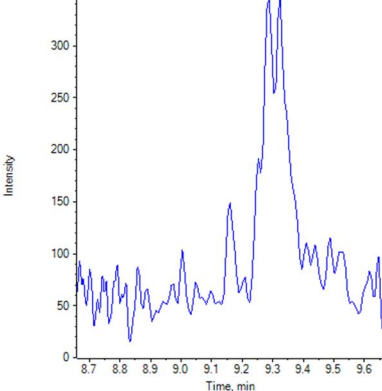
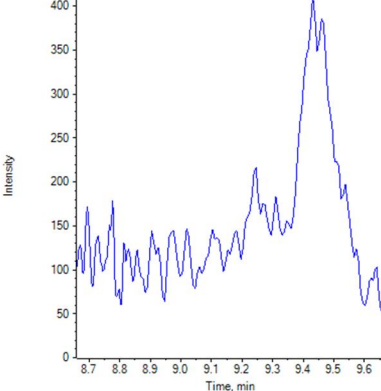
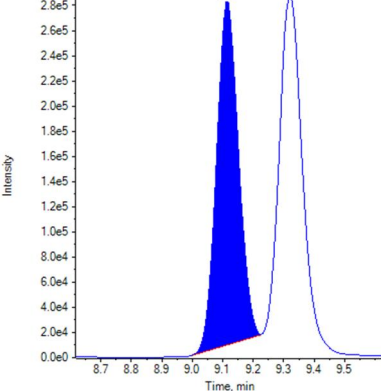
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 1	$\Delta 9$ -THC 1	1.000 (Pass)	0.713 (Pass)
	$\Delta 9$ -THC 2	1.000 (Pass)	
Standard 2	$\Delta 9$ -THC 1	1.000 (Pass)	0.688 (Pass)
	$\Delta 9$ -THC 2	1.000 (Pass)	
Standard 3	$\Delta 9$ -THC 1	1.000 (Pass)	0.678 (Pass)
	$\Delta 9$ -THC 2	1.000 (Pass)	
Standard 4	$\Delta 9$ -THC 1	1.000 (Pass)	0.686 (Pass)
	$\Delta 9$ -THC 2	1.000 (Pass)	
Standard 5	$\Delta 9$ -THC 1	1.000 (Pass)	0.682 (Pass)
	$\Delta 9$ -THC 2	1.000 (Pass)	
Standard 6	$\Delta 9$ -THC 1	1.000 (Pass)	0.679 (Pass)
	$\Delta 9$ -THC 2	1.000 (Pass)	
Negative	$\Delta 9$ -THC 1	N/A ()	N/A ()

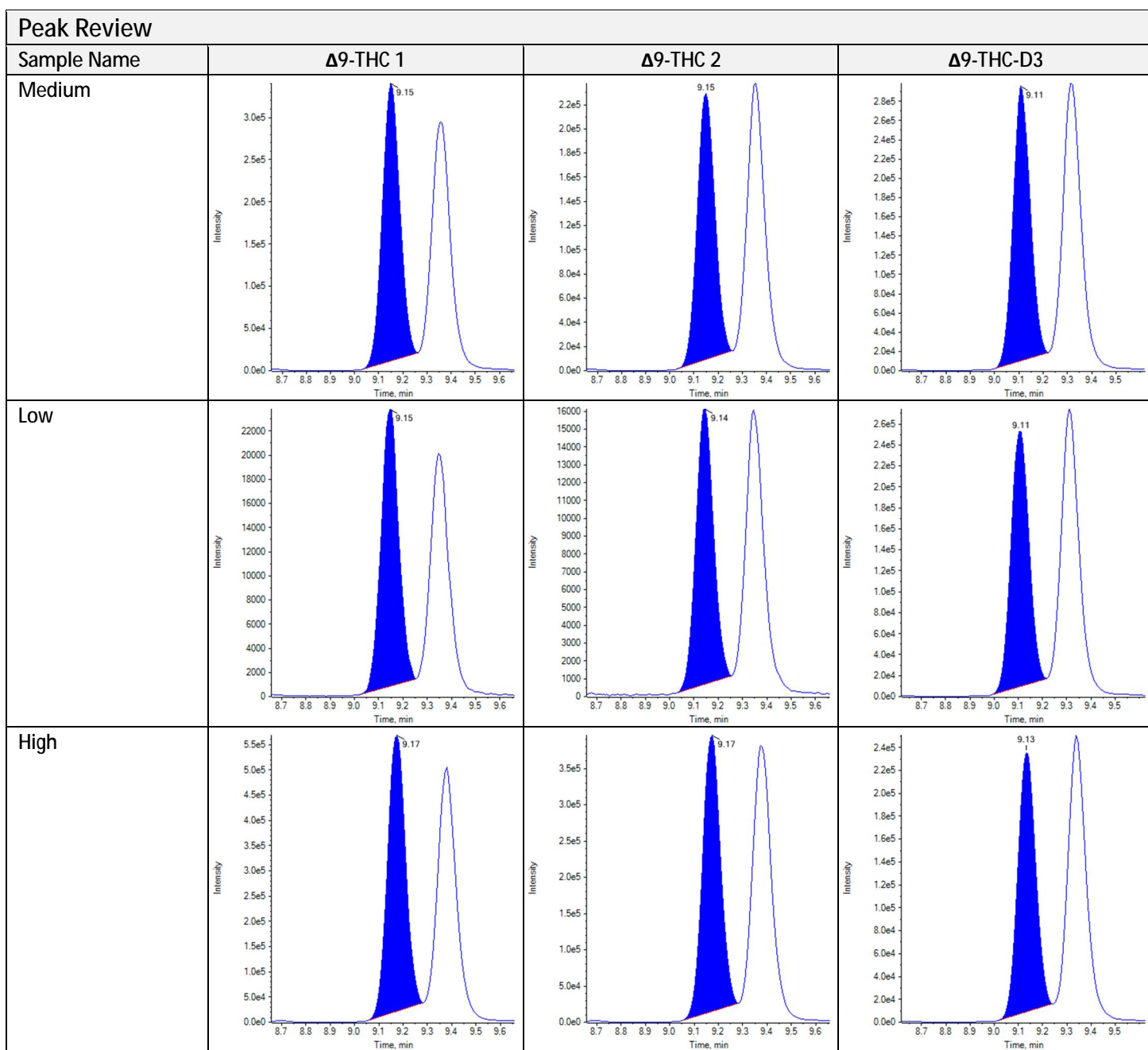
Identification Summary: Δ^9 -THC

Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
	Δ^9 -THC 2	N/A ()	
Medium	Δ^9 -THC 1 Δ^9 -THC 2	1.000 (Pass) 1.000 (Pass)	0.674 (Pass)
Low	Δ^9 -THC 1 Δ^9 -THC 2	1.000 (Pass) 1.000 (Pass)	0.671 (Pass)
High	Δ^9 -THC 1 Δ^9 -THC 2	1.000 (Pass) 1.000 (Pass)	0.693 (Pass)

Peak Review

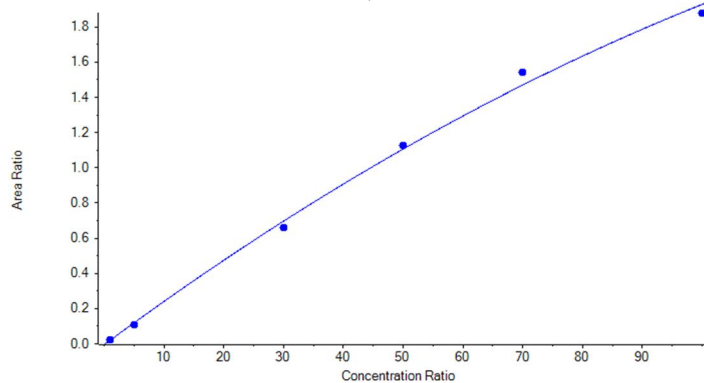
Sample Name	Δ^9 -THC 1	Δ^9 -THC 2	Δ^9 -THC-D3
Standard 1			
Standard 2			
Standard 3			

Peak Review			
Sample Name	$\Delta 9$ -THC 1	$\Delta 9$ -THC 2	$\Delta 9$ -THC-D3
Standard 4			
Standard 5			
Standard 6			
Negative			



Calibration Summary: $\Delta 8$ -THC

$$y = -5.79613e-5 x^2 + 0.02512 x + -0.00526 \quad (r = 0.99913) \quad (\text{weighting: } 1/x)$$



Analyte Transition Mass	
Internal Standard	$\Delta 8$ -THC-D3
I.S. Transition Mass	318.1 / 123.0
$\Delta 8$ -THC 1	315.1 / 193.1
$\Delta 8$ -THC 2	315.1 / 123.1
Relative Retention time: Expected (Acceptance Range)	
$\Delta 8$ -THC 1	1.004 (0.979-1.029)
$\Delta 8$ -THC 2	1.004 (0.979-1.029)
Ion Ratio: Expected (Acceptance Range)	
$\Delta 8$ -THC 2	0.774 (0.619-0.929)
$\Delta 8$ -THC comment	

Quantitative Summary: $\Delta 8$ -THC

Sample Name	Area Ratio	Actual Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
Standard 1	0.0219	1.00	1.084	108.40
Standard 2	0.1096	5.00	4.623	92.46
Standard 3	0.6614	30.00	28.393	94.64
Standard 4	1.1240	50.00	50.932	101.86
Standard 5	1.5430	70.00	74.416	106.31
Standard 6	1.8780	100.00	96.372	96.37
Negative	N/A	0.00	N/A	N/A
Medium	0.8798	40.00	38.679	96.70
Low	0.0637	3.00	2.764	92.14
High	1.7710	80.00	88.953	111.19

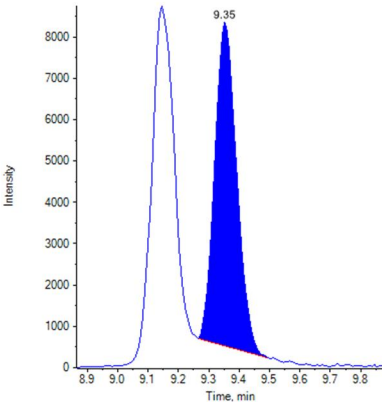
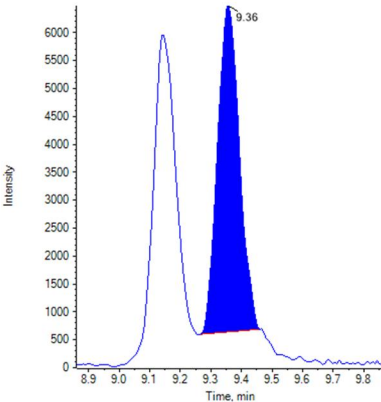
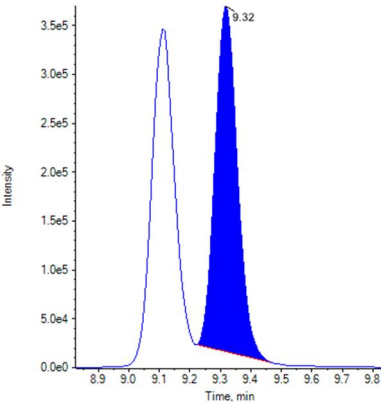
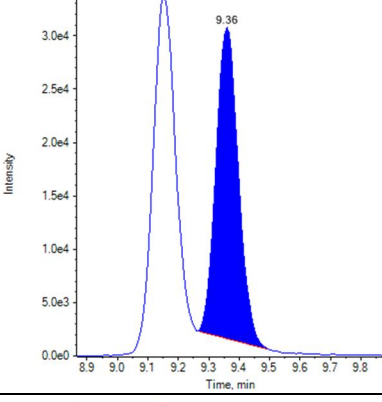
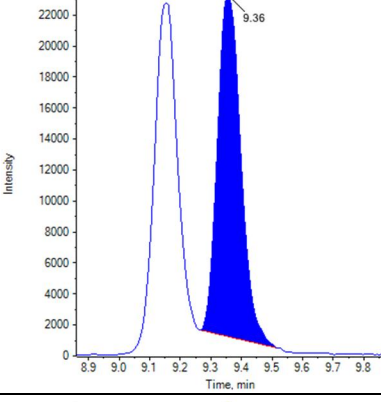
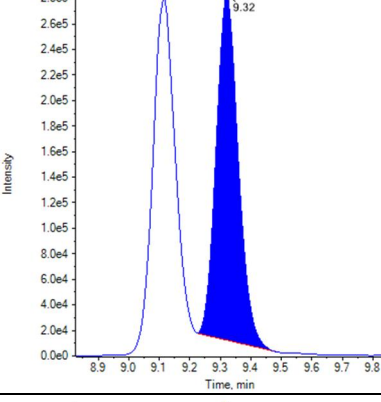
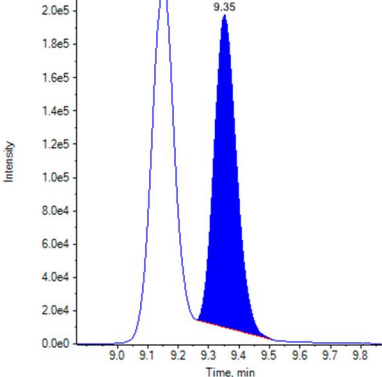
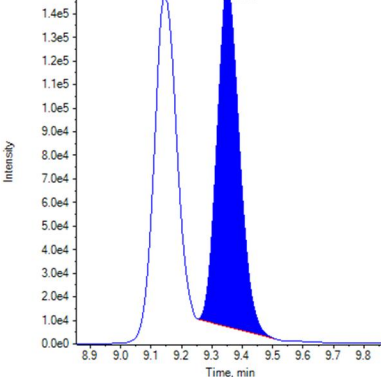
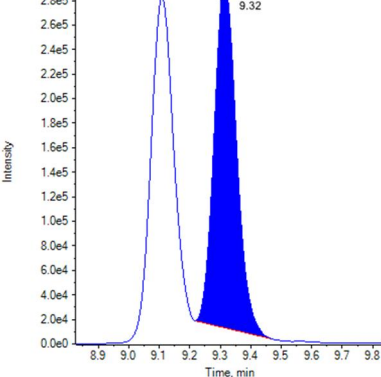
Identification Summary: $\Delta 8$ -THC

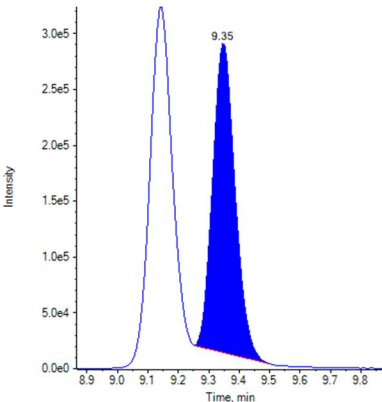
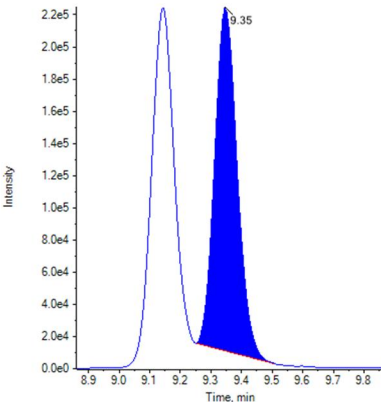
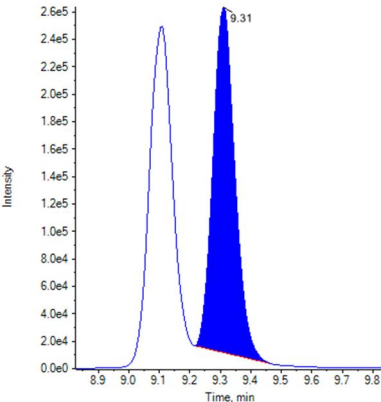
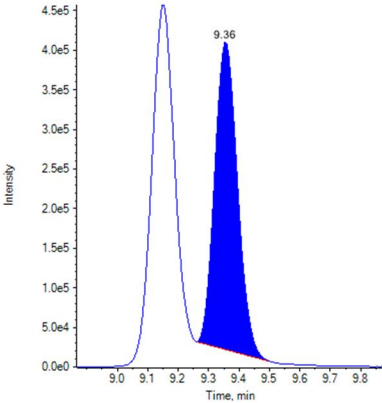
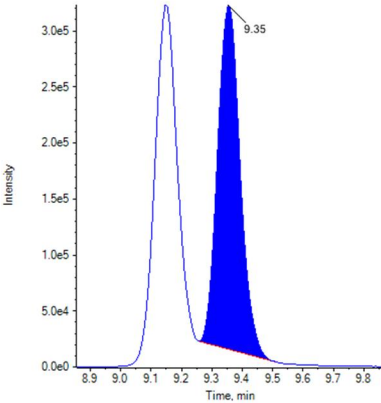
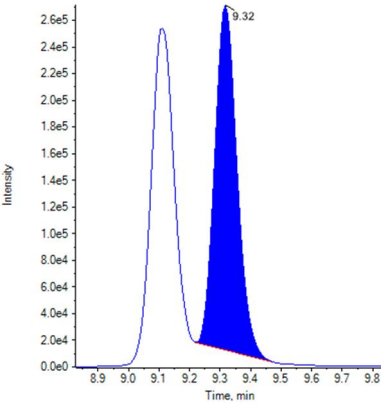
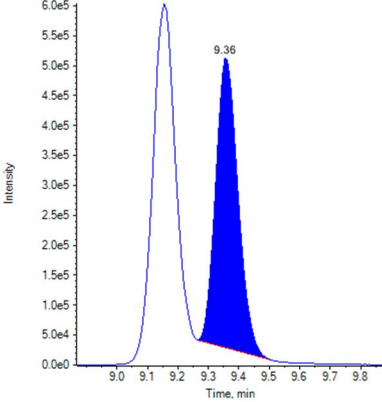
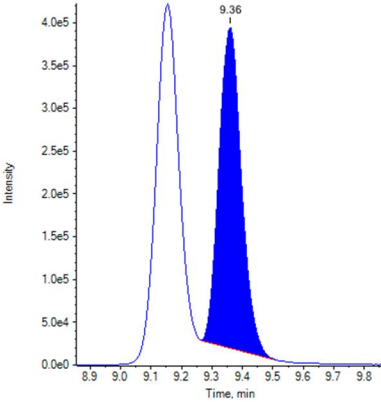
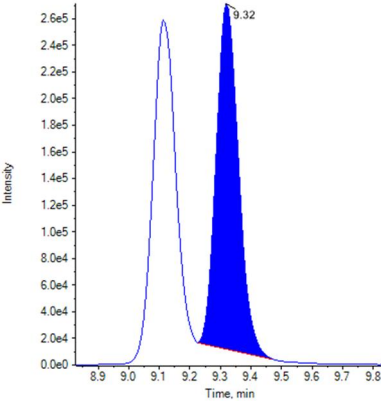
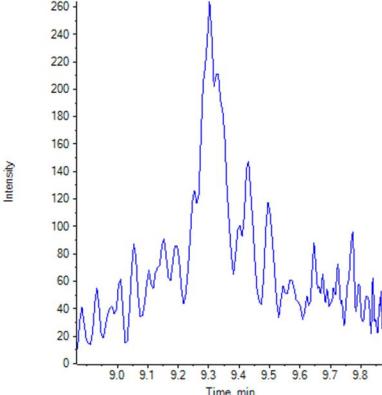
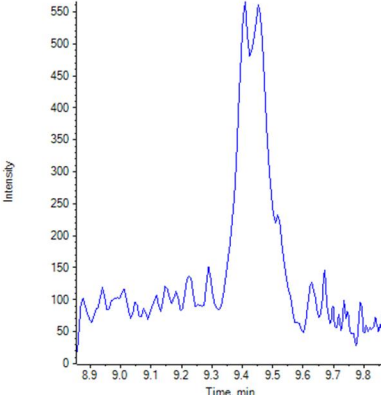
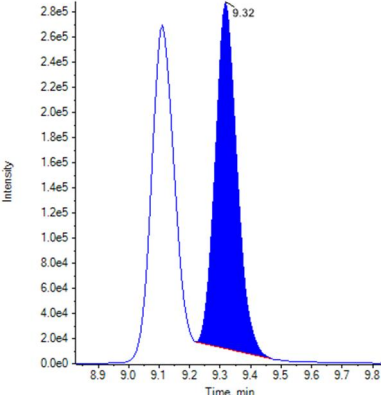
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 1	$\Delta 8$ -THC 1	1.000 (Pass)	0.742 (Pass)
	$\Delta 8$ -THC 2	1.000 (Pass)	
Standard 2	$\Delta 8$ -THC 1	1.000 (Pass)	0.788 (Pass)
	$\Delta 8$ -THC 2	1.000 (Pass)	
Standard 3	$\Delta 8$ -THC 1	1.000 (Pass)	0.777 (Pass)
	$\Delta 8$ -THC 2	1.000 (Pass)	
Standard 4	$\Delta 8$ -THC 1	1.000 (Pass)	0.771 (Pass)
	$\Delta 8$ -THC 2	1.000 (Pass)	
Standard 5	$\Delta 8$ -THC 1	1.000 (Pass)	0.784 (Pass)
	$\Delta 8$ -THC 2	1.000 (Pass)	
Standard 6	$\Delta 8$ -THC 1	1.000 (Pass)	0.781 (Pass)
	$\Delta 8$ -THC 2	1.000 (Pass)	
Negative	$\Delta 8$ -THC 1	N/A ()	N/A ()

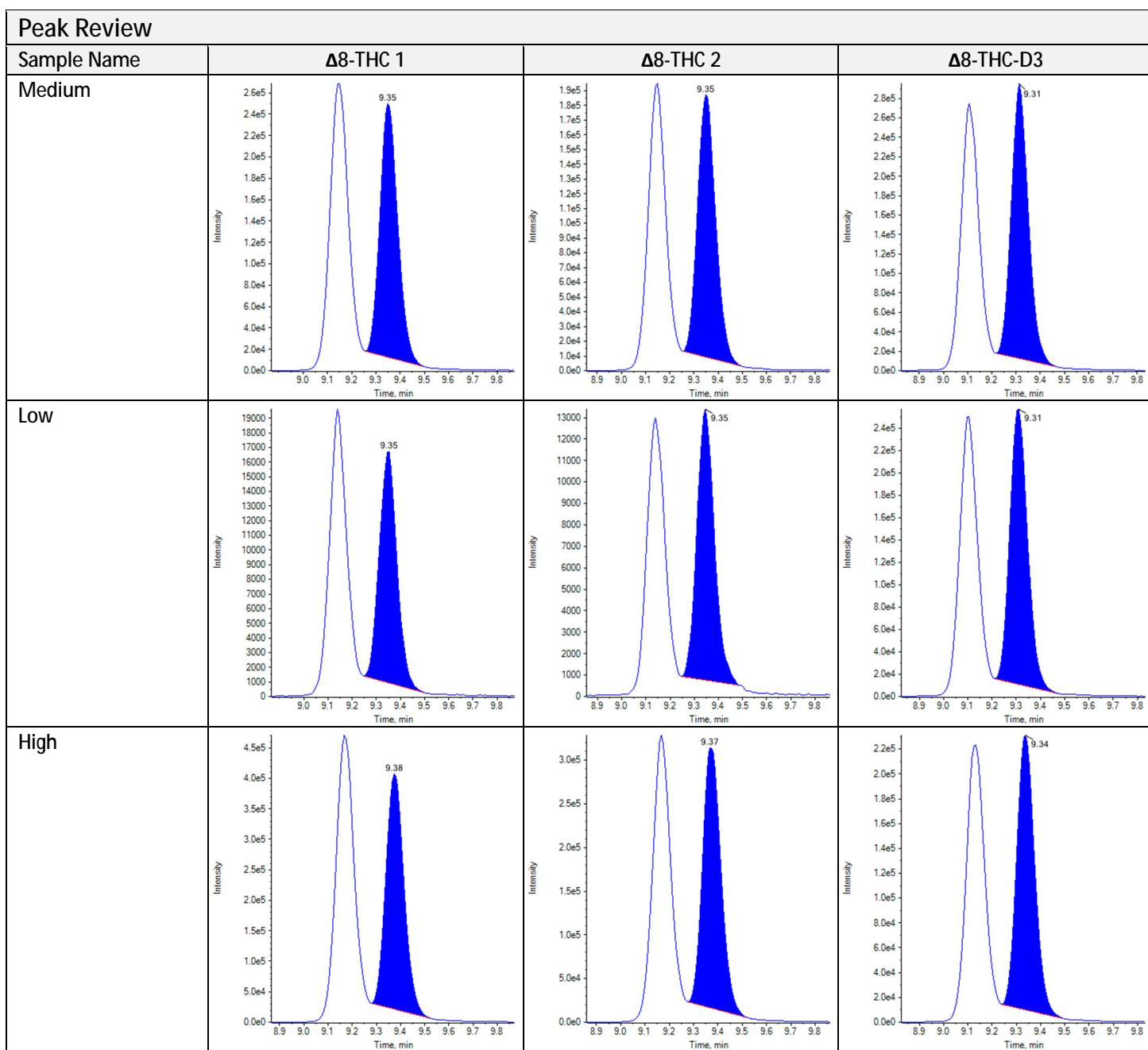
Identification Summary: $\Delta 8$ -THC

Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
	$\Delta 8$ -THC 2	N/A ()	
Medium	$\Delta 8$ -THC 1 $\Delta 8$ -THC 2	1.000 (Pass) 1.000 (Pass)	0.762 (Pass)
Low	$\Delta 8$ -THC 1 $\Delta 8$ -THC 2	1.000 (Pass) 1.000 (Pass)	0.799 (Pass)
High	$\Delta 8$ -THC 1 $\Delta 8$ -THC 2	1.000 (Pass) 1.000 (Pass)	0.779 (Pass)

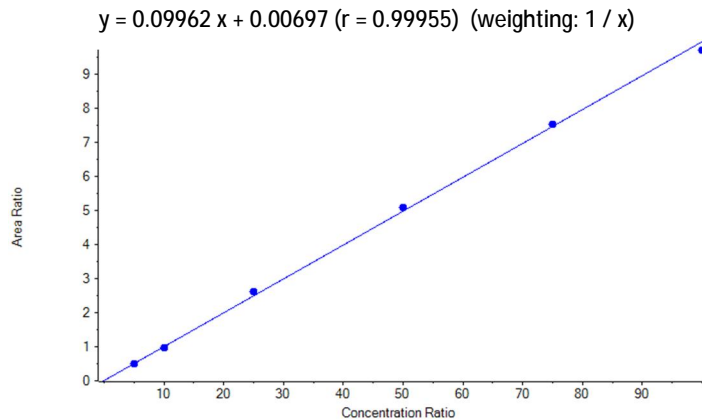
Peak Review

Sample Name	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2	$\Delta 8$ -THC-D3
Standard 1			
Standard 2			
Standard 3			

Peak Review			
Sample Name	$\Delta 8$ -THC 1	$\Delta 8$ -THC 2	$\Delta 8$ -THC-D3
Standard 4			
Standard 5			
Standard 6			
Negative			



Calibration Summary: THC-COOH



Analyte Transition Mass	
Internal Standard	THC-COOH-D3
I.S. Transition Mass	346.0 / 194.0
THC-COOH 1	343.0 / 299.1
THC-COOH 2	343.0 / 191.0
Relative Retention time: Expected (Acceptance Range)	
THC-COOH 1	1.007 (0.982-1.032)
THC-COOH 2	1.007 (0.982-1.032)
Ion Ratio: Expected (Acceptance Range)	
THC-COOH 2	0.182 (0.146-0.218)
THC-COOH comment	

Quantitative Summary: THC-COOH

Sample Name	Area Ratio	Actual Concentration (ng/mL)	Calculated Concentration (ng/mL)	Accuracy (%)
Standard 1	0.4910	5.00	4.859	97.18
Standard 2	0.9805	10.00	9.773	97.73
Standard 3	2.6090	25.00	26.122	104.49
Standard 4	5.1050	50.00	51.176	102.35
Standard 5	7.5340	75.00	75.557	100.74
Standard 6	9.7210	100.00	97.513	97.51
Negative	N/A	0.00	N/A	N/A
Medium	4.1660	40.00	41.754	104.39
Low	0.7860	8.00	7.820	97.75
High	7.6350	80.00	76.570	95.71

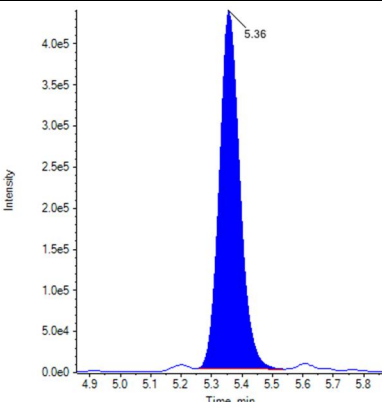
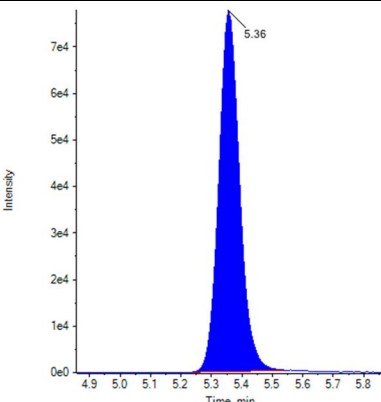
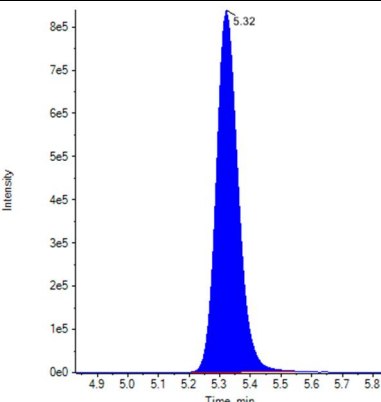
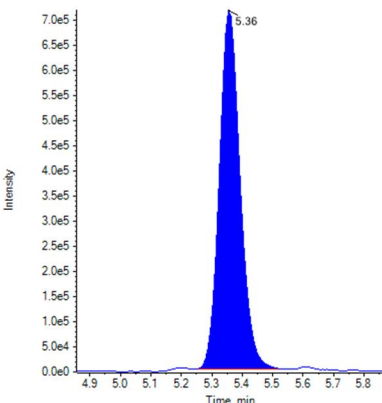
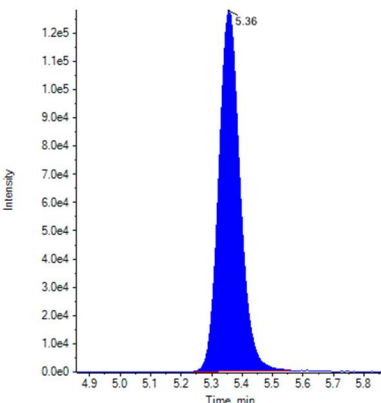
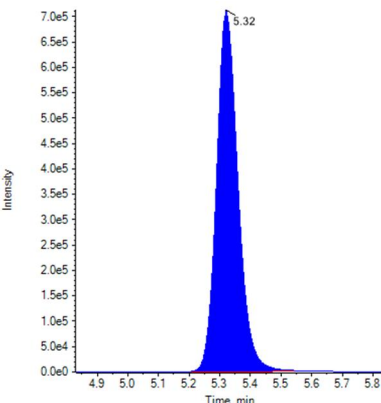
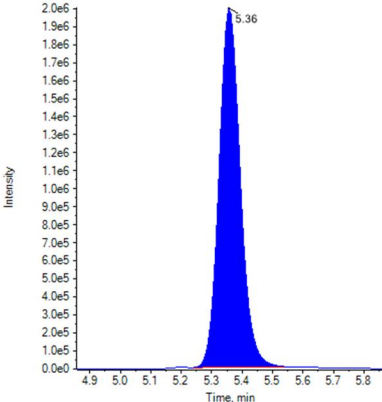
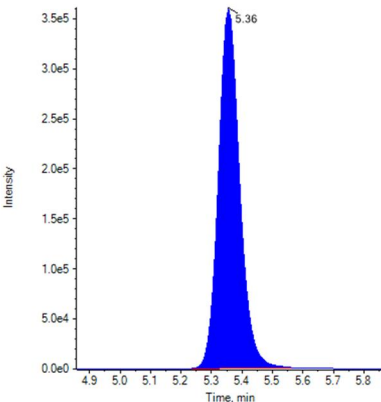
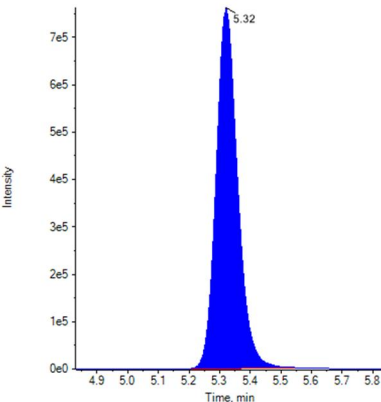
Identification Summary: THC-COOH

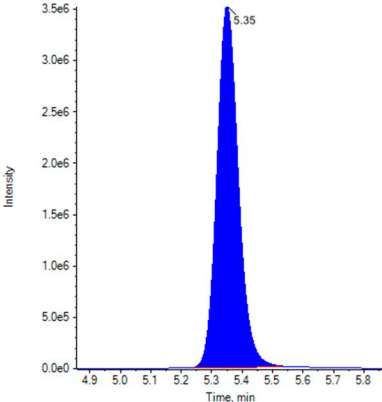
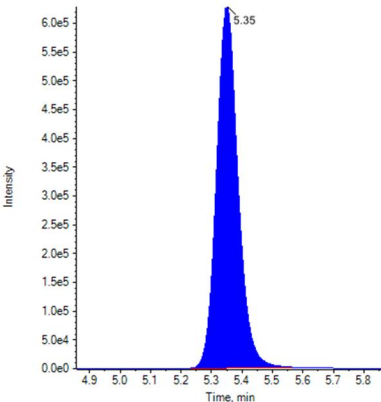
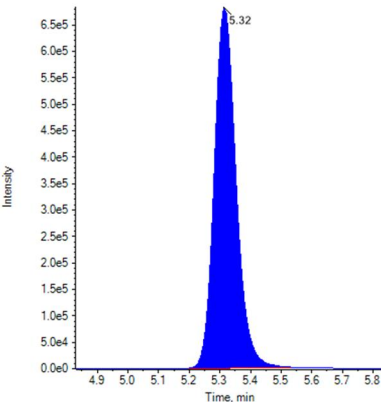
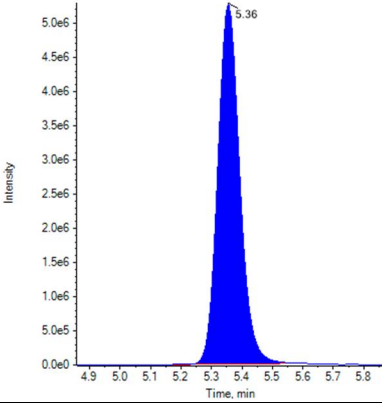
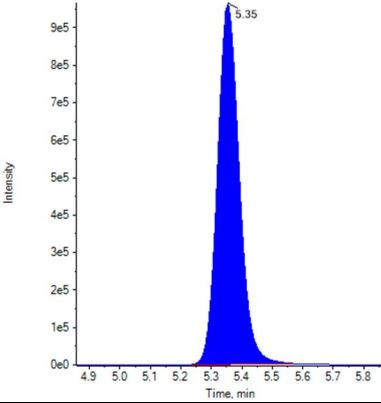
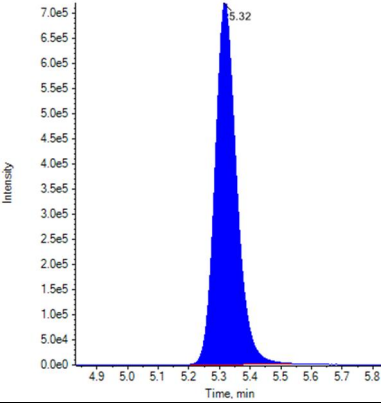
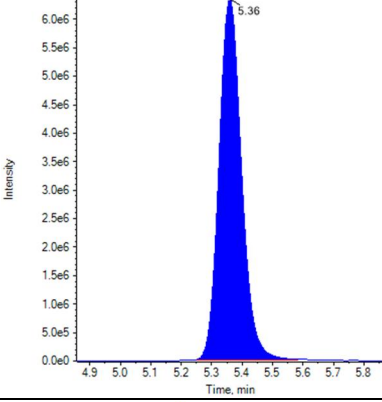
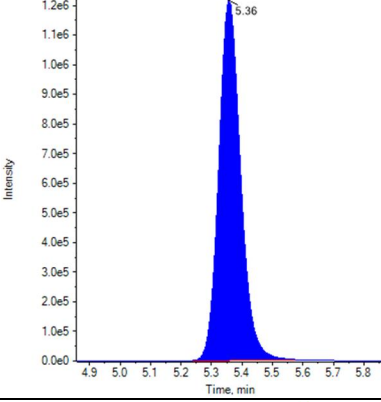
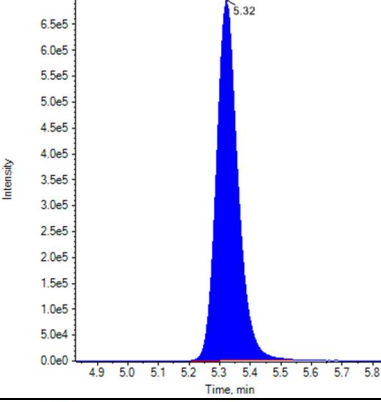
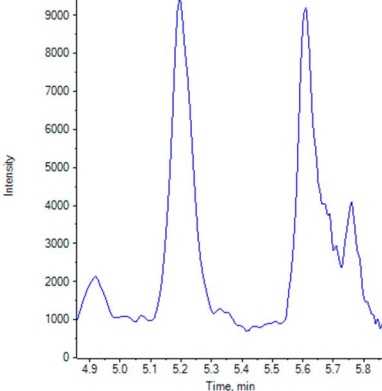
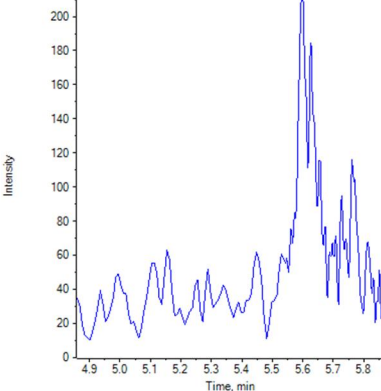
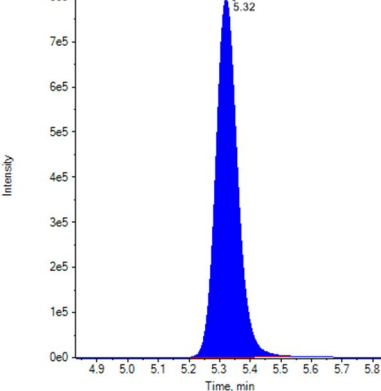
Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Standard 1	THC-COOH 1	1.010 (Pass)	0.182 (Pass)
	THC-COOH 2	1.010 (Pass)	
Standard 2	THC-COOH 1	1.010 (Pass)	0.182 (Pass)
	THC-COOH 2	1.010 (Pass)	
Standard 3	THC-COOH 1	1.010 (Pass)	0.180 (Pass)
	THC-COOH 2	1.010 (Pass)	
Standard 4	THC-COOH 1	1.010 (Pass)	0.179 (Pass)
	THC-COOH 2	1.010 (Pass)	
Standard 5	THC-COOH 1	1.010 (Pass)	0.182 (Pass)
	THC-COOH 2	1.010 (Pass)	
Standard 6	THC-COOH 1	1.010 (Pass)	0.186 (Pass)
	THC-COOH 2	1.010 (Pass)	

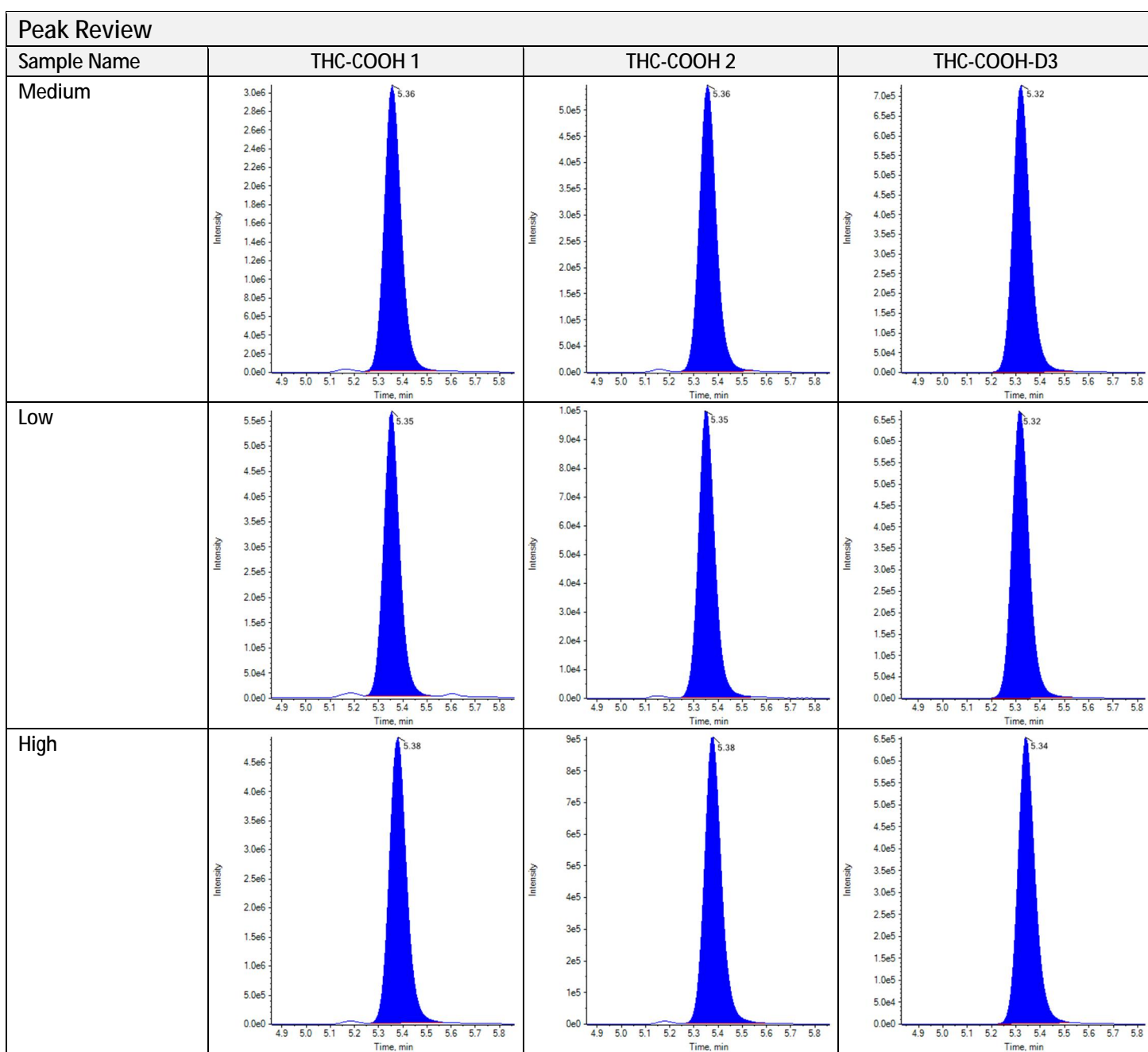
Identification Summary: THC-COOH

Sample Name	Analyte Transition	RRT (RRT Query)	Ion Ratio (Ratio Query)
Negative	THC-COOH 1	N/A ()	N/A ()
	THC-COOH 2	N/A ()	
Medium	THC-COOH 1	1.010 (Pass)	0.178 (Pass)
	THC-COOH 2	1.010 (Pass)	
Low	THC-COOH 1	1.010 (Pass)	0.181 (Pass)
	THC-COOH 2	1.010 (Pass)	
High	THC-COOH 1	1.010 (Pass)	0.182 (Pass)
	THC-COOH 2	1.010 (Pass)	

Peak Review

Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3
Standard 1			
Standard 2			
Standard 3			

Peak Review			
Sample Name	THC-COOH 1	THC-COOH 2	THC-COOH-D3
Standard 4			
Standard 5			
Standard 6			
Negative			





Sample Summary

Sample Name	Standard 1
Acquisition Date/Time	2022-09-22T15:43:16
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Standard
File Name	20220922 Simulated Batch.wiff
Position	1
Sample Comment	

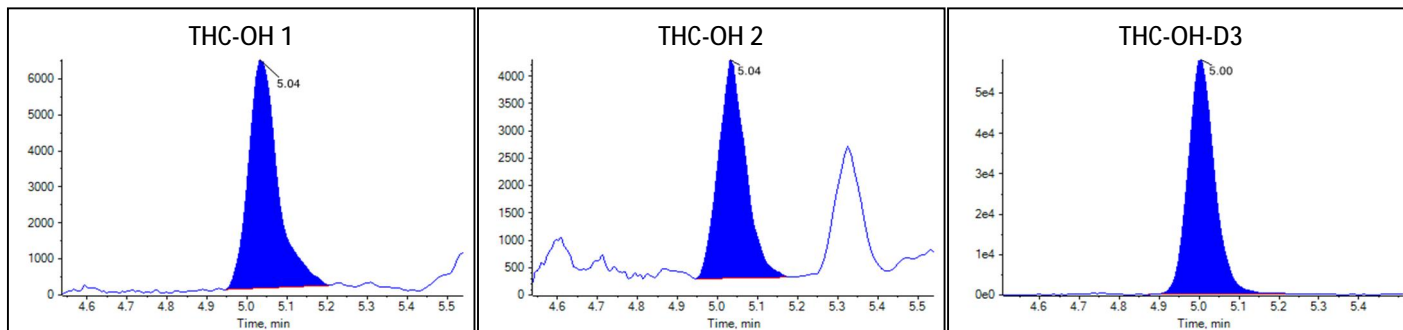
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.209e-1	1.029		
Δ 9-THC	2.925e-2	1.068		
Δ 8-THC	2.190e-2	1.084		
THC-COOH	4.910e-1	4.859		

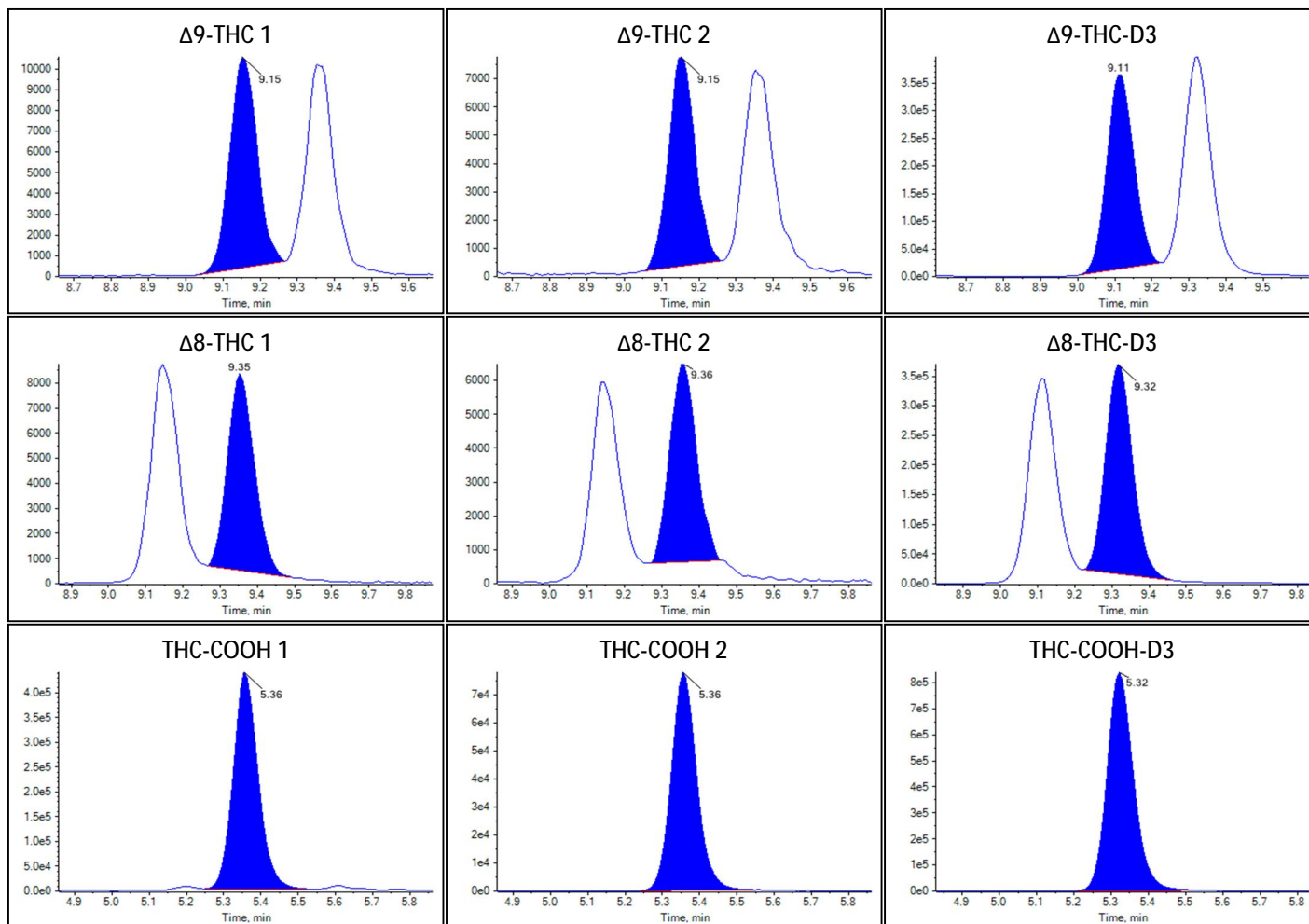
Identification Summary: Standard 1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Standard 1



Peak Review: Standard 1





Sample Summary

Sample Name	Standard 2
Acquisition Date/Time	2022-09-22T15:57:21
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Standard
File Name	20220922 Simulated Batch.wiff
Position	2
Sample Comment	

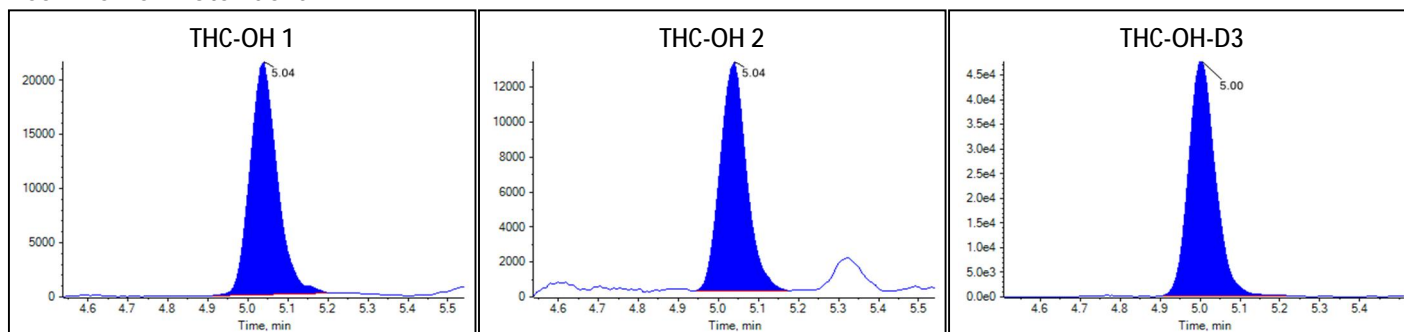
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	4.553e-1	3.925		
Δ 9-THC	1.435e-1	4.693		
Δ 8-THC	1.096e-1	4.623		
THC-COOH	9.805e-1	9.773		

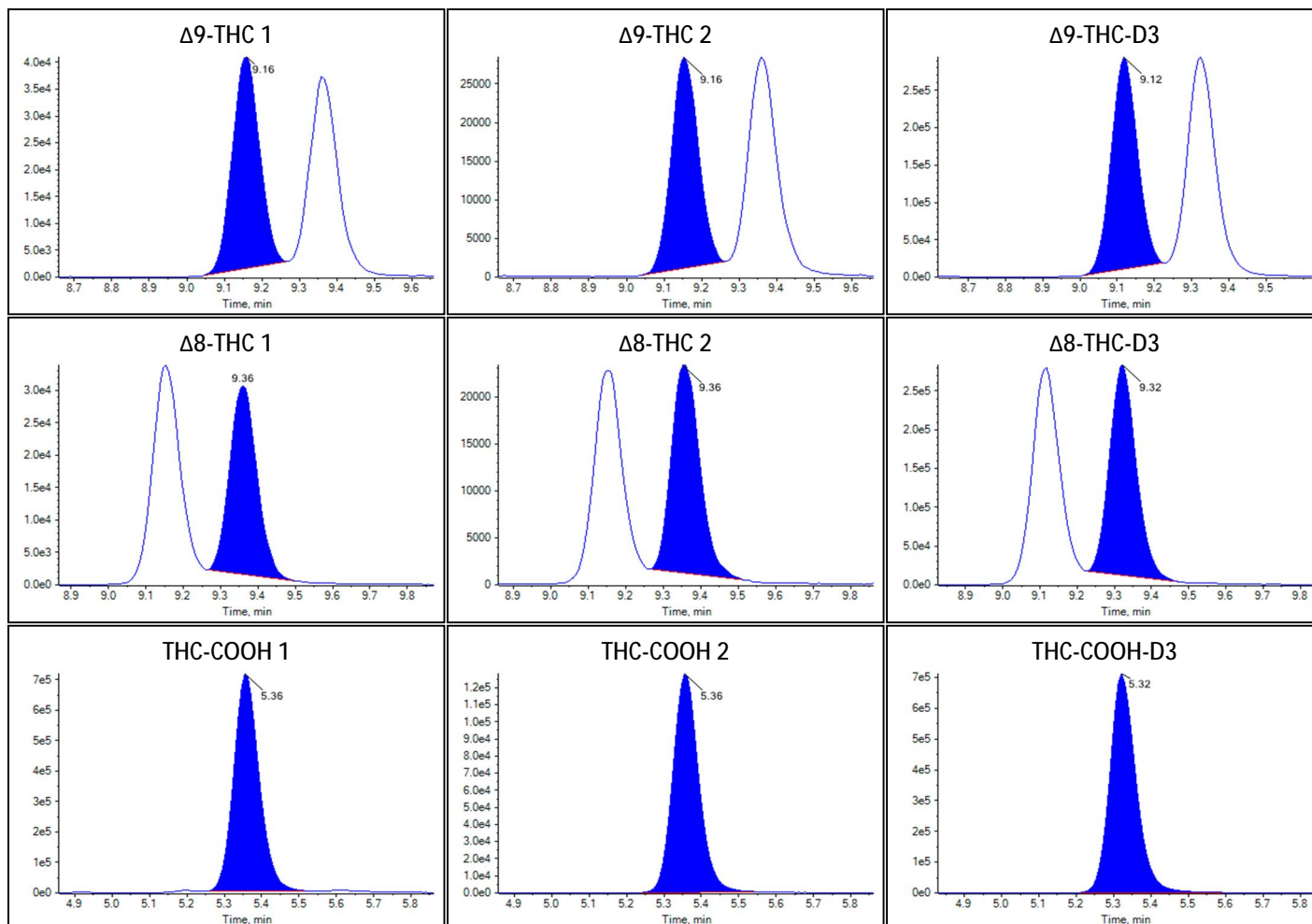
Identification Summary: Standard 2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Standard 2



Peak Review: Standard 2





Sample Summary

Sample Name	Standard 3
Acquisition Date/Time	2022-09-22T16:11:26
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Standard
File Name	20220922 Simulated Batch.wiff
Position	3
Sample Comment	

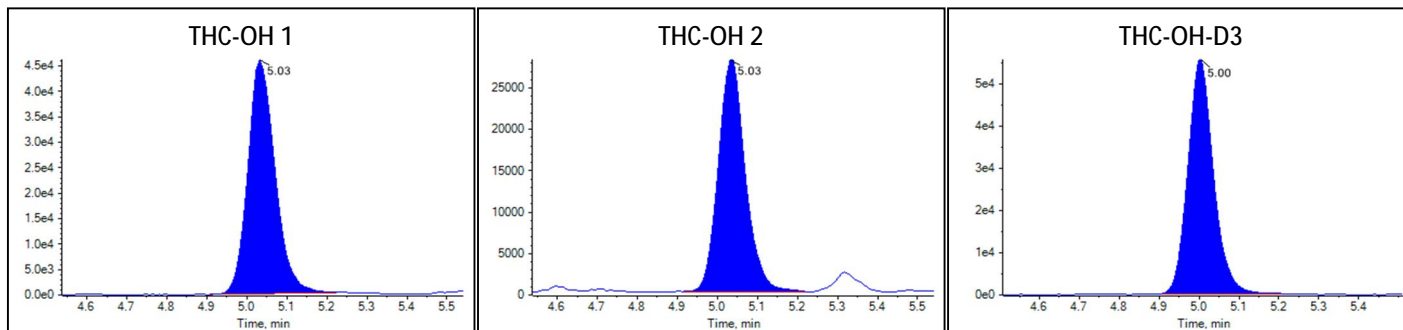
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	8.692e-1	7.512		
Δ^9 -THC	8.924e-1	29.069		
Δ^8 -THC	6.614e-1	28.393		
THC-COOH	2.609e0	26.122		

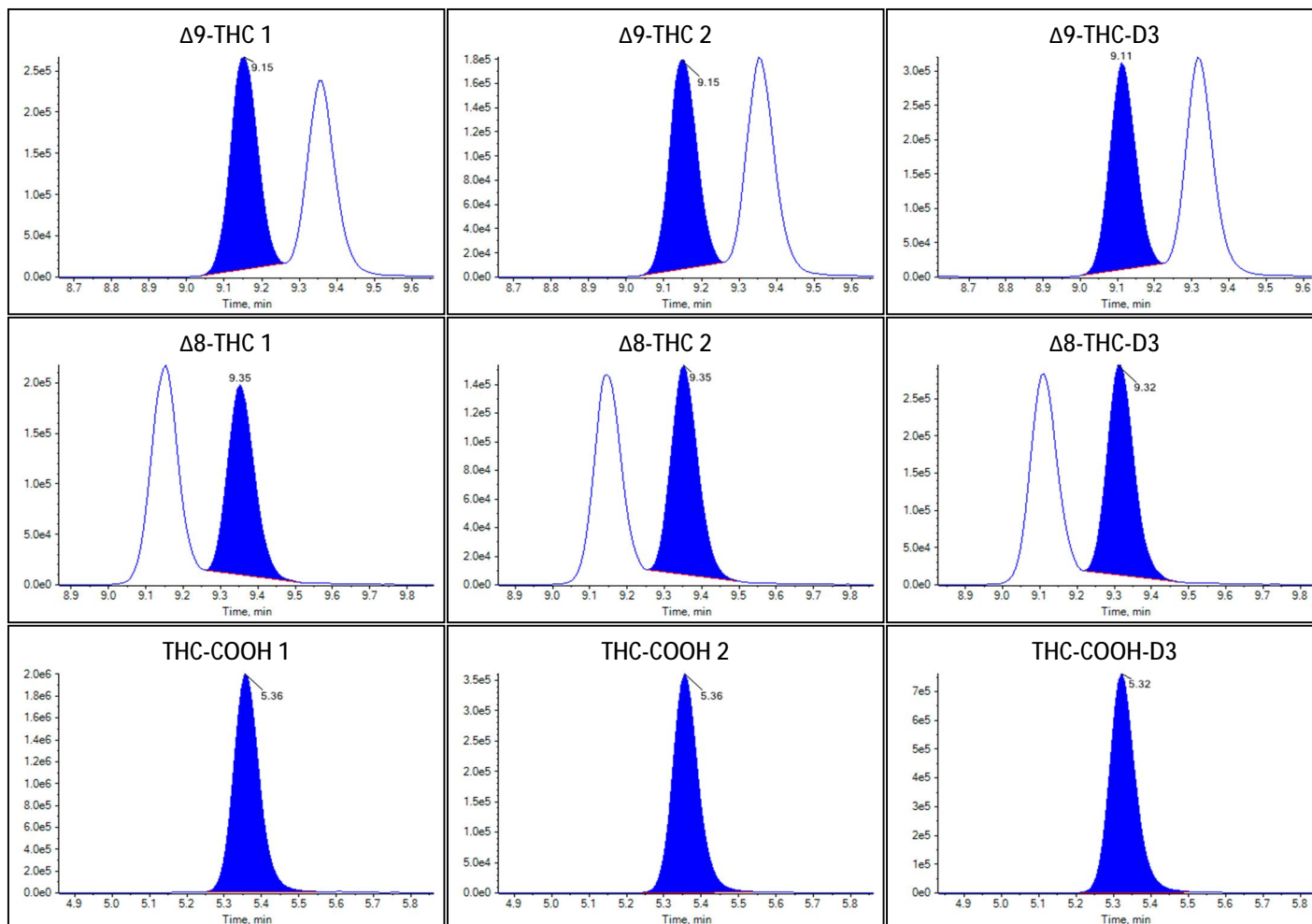
Identification Summary: Standard 3

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Standard 3



Peak Review: Standard 3





Sample Summary

Sample Name	Standard 4
Acquisition Date/Time	2022-09-22T16:25:32
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Standard
File Name	20220922 Simulated Batch.wiff
Position	4
Sample Comment	

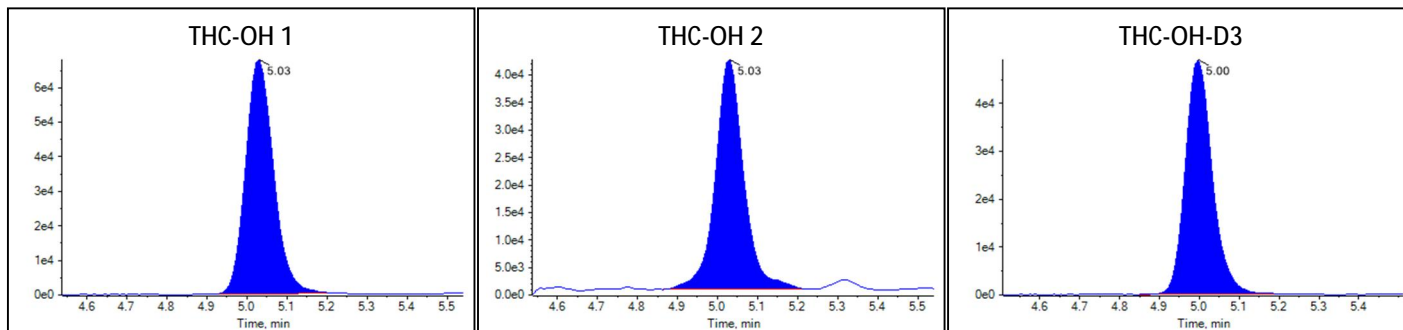
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.429e0	12.361		
Δ^9 -THC	1.504e0	49.864		
Δ^8 -THC	1.124e0	50.932		
THC-COOH	5.105e0	51.176		

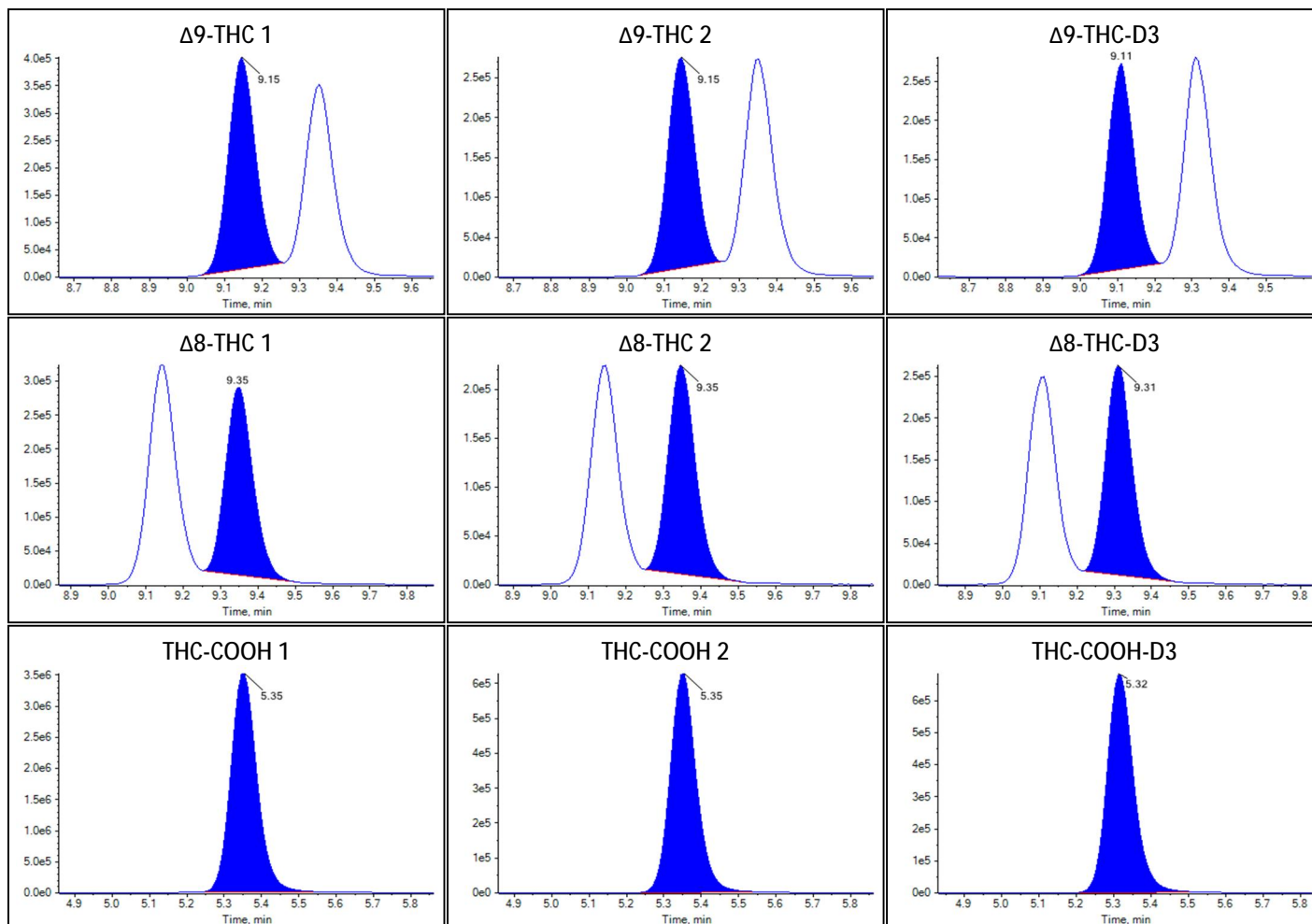
Identification Summary: Standard 4

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Standard 4



Peak Review: Standard 4





Sample Summary

Sample Name	Standard 5
Acquisition Date/Time	2022-09-22T16:39:34
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Standard
File Name	20220922 Simulated Batch.wiff
Position	5
Sample Comment	

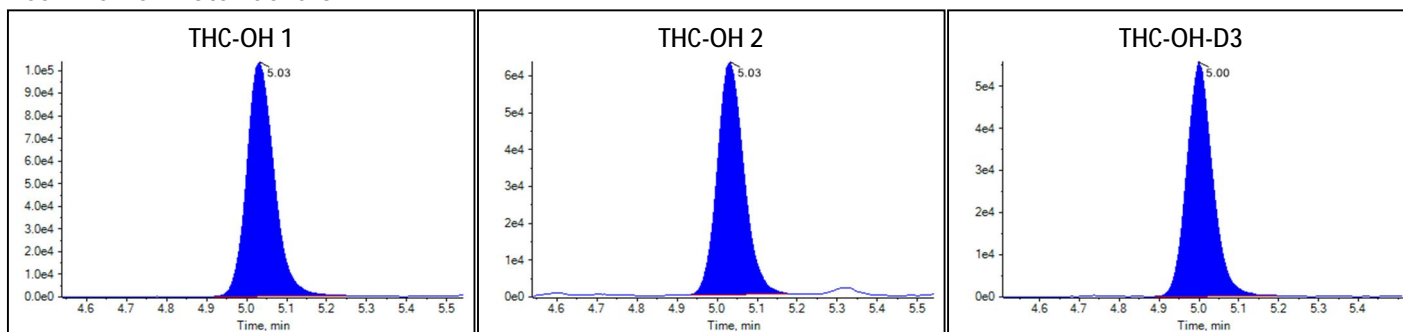
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.959e0	16.954		
Δ^9 -THC	2.168e0	73.455		
Δ^8 -THC	1.543e0	74.416		
THC-COOH	7.534e0	75.557		

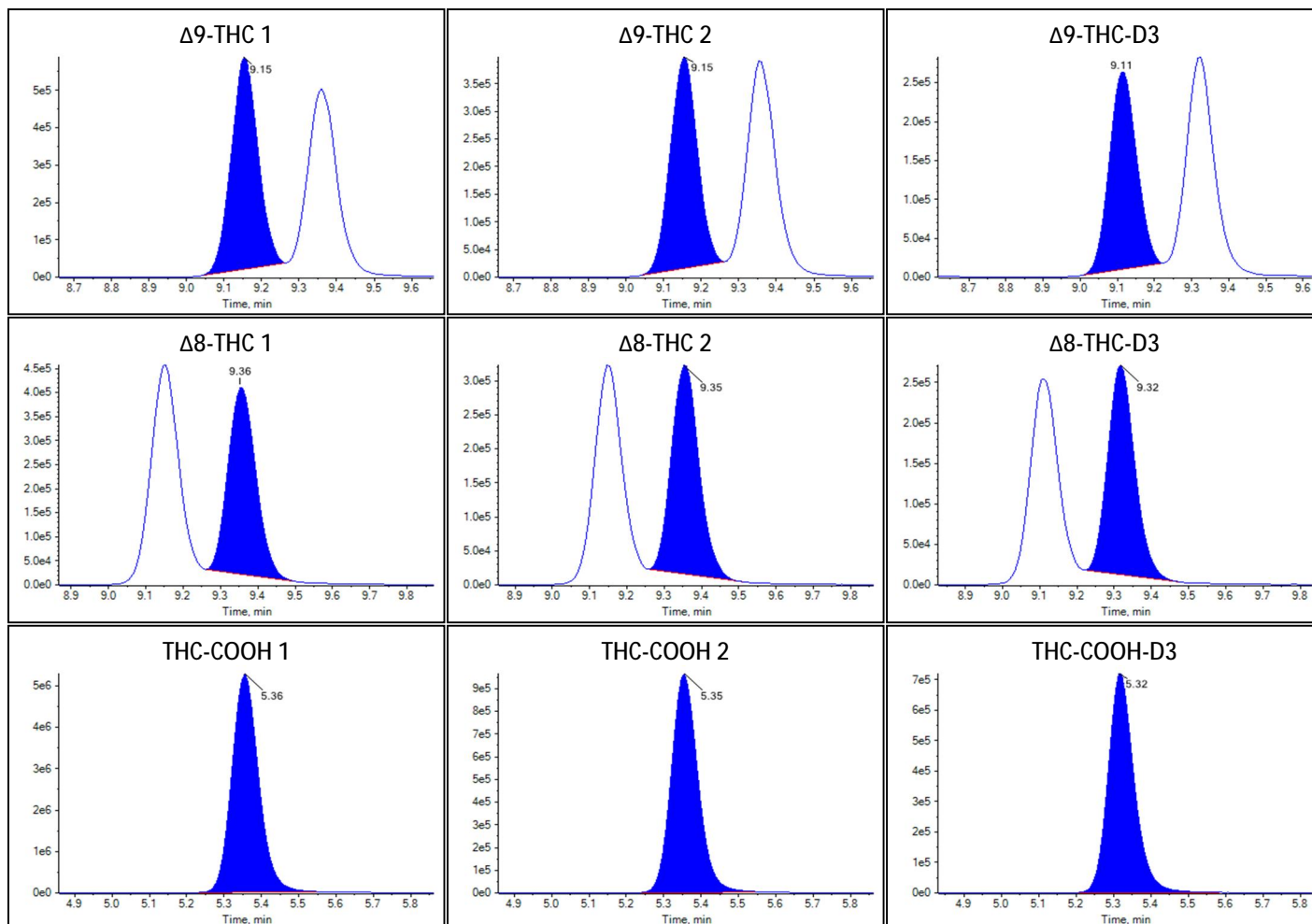
Identification Summary: Standard 5

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Standard 5



Peak Review: Standard 5





Sample Summary

Sample Name	Standard 6
Acquisition Date/Time	2022-09-22T16:53:39
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Standard
File Name	20220922 Simulated Batch.wiff
Position	6
Sample Comment	

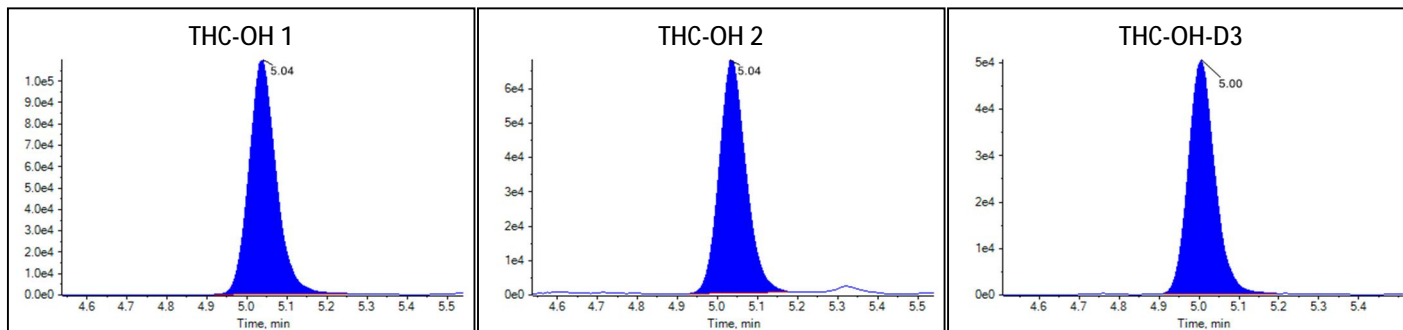
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.221e0	19.219		
Δ 9-THC	2.821e0	97.851		
Δ 8-THC	1.878e0	96.372		
THC-COOH	9.721e0	97.513		

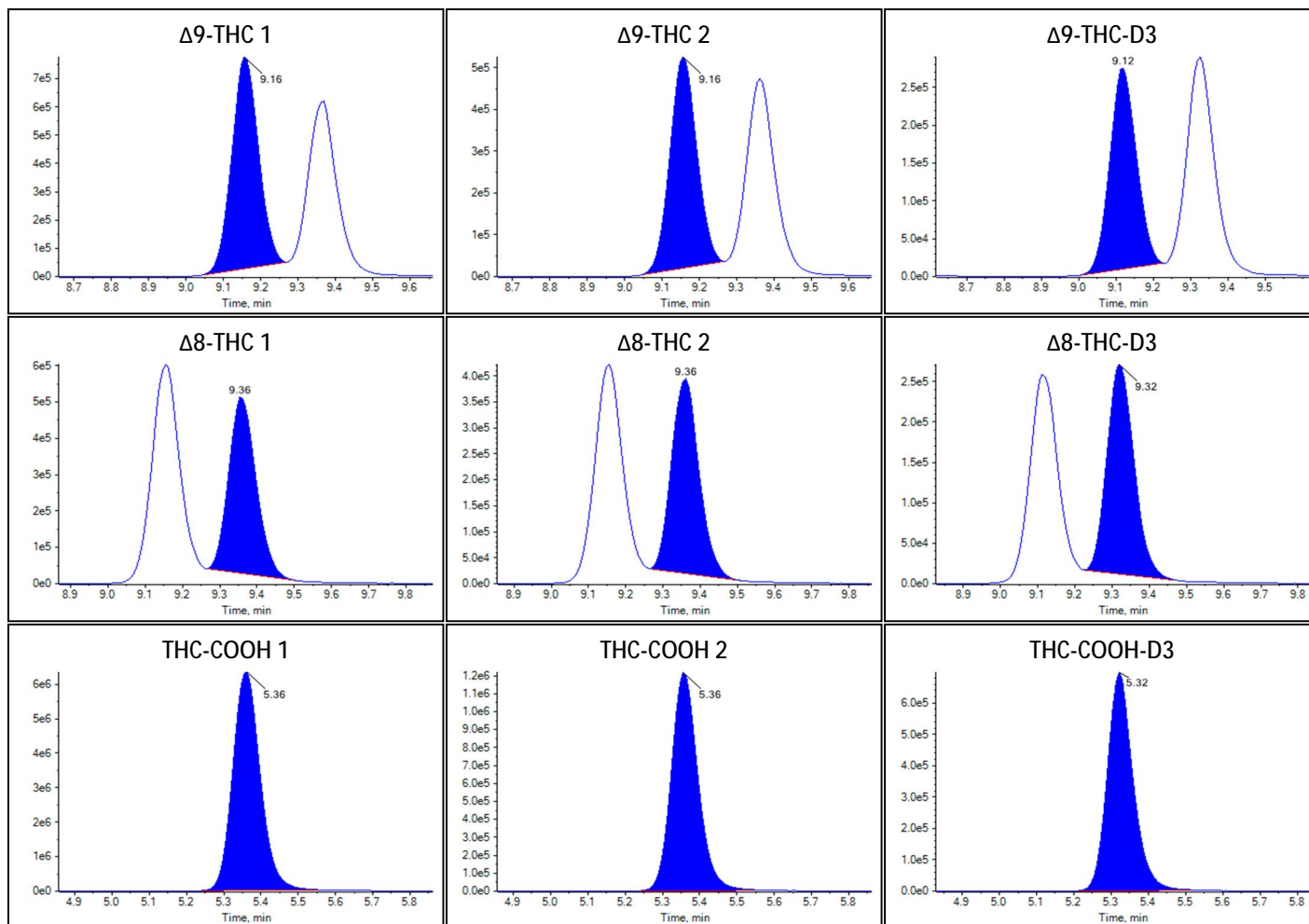
Identification Summary: Standard 6

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Standard 6



Peak Review: Standard 6





Sample Summary

Sample Name	Negative
Acquisition Date/Time	2022-09-22T17:07:45
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Quality Control
File Name	20220922 Simulated Batch.wiff
Position	7
Sample Comment	

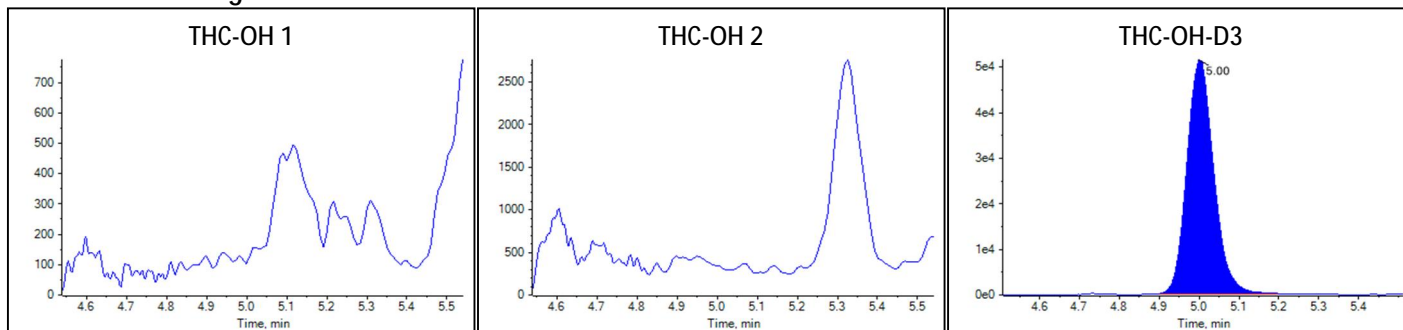
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	N/A	N/A		

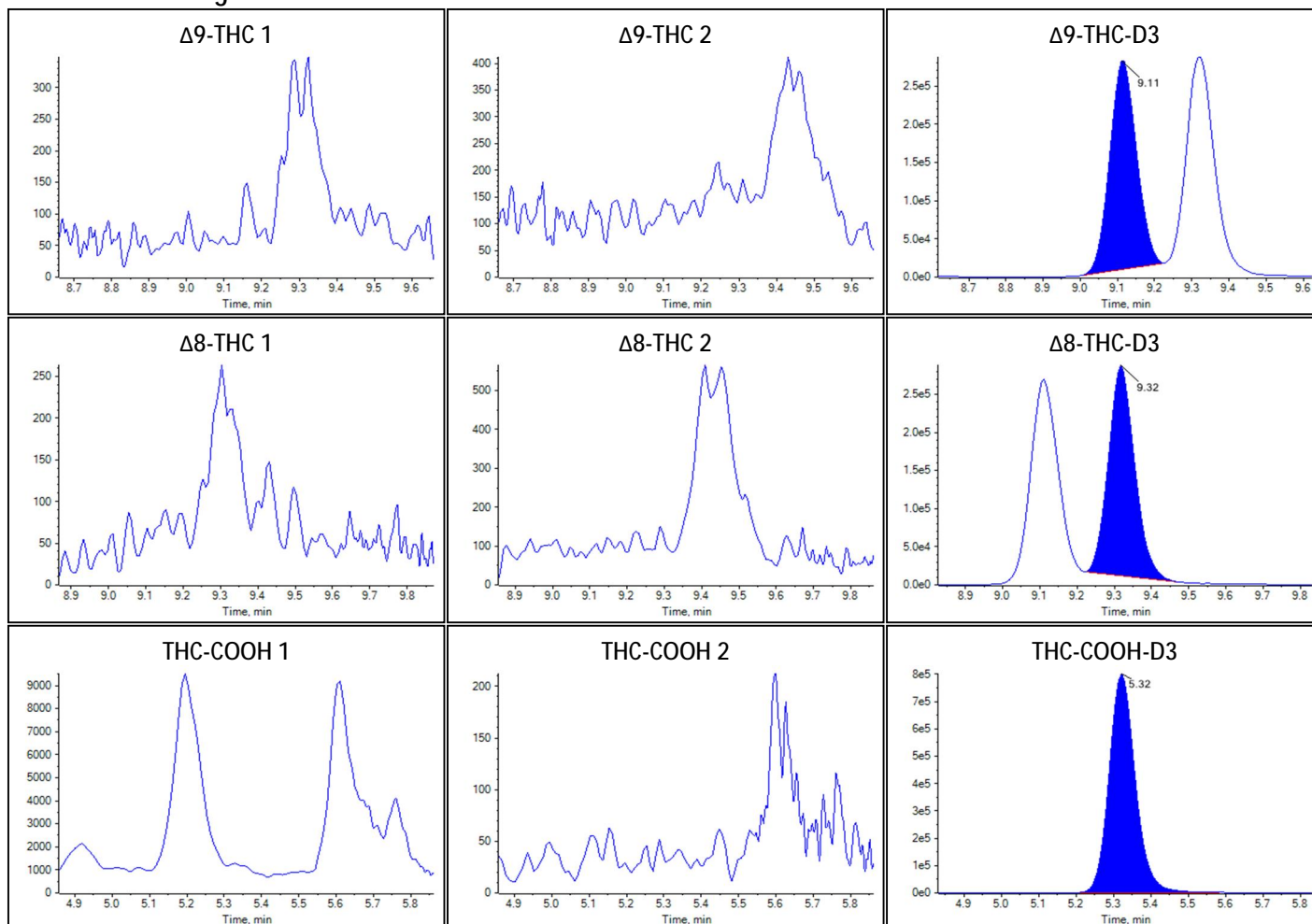
Identification Summary: Negative

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	
Δ^9 -THC 1	315.1 / 193.1	N/A	
Δ^9 -THC 2	315.1 / 123.0	N/A	
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	N/A	
THC-COOH 2	343.0 / 191.0	N/A	

Peak Review: Negative



Peak Review: Negative





Sample Summary

Sample Name	Medium
Acquisition Date/Time	2022-09-22T17:21:50
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Quality Control
File Name	20220922 Simulated Batch.wiff
Position	8
Sample Comment	

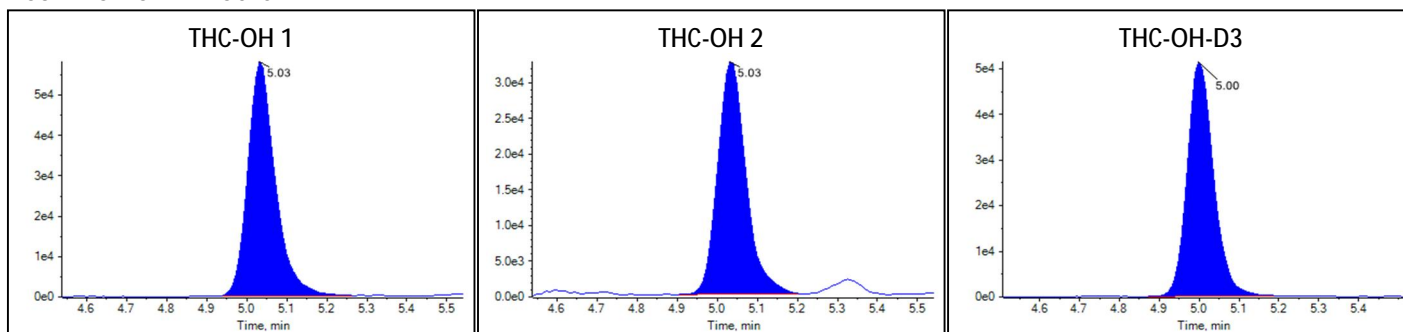
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.170e0	10.121		
Δ 9-THC	1.184e0	38.868		
Δ 8-THC	8.798e-1	38.679		
THC-COOH	4.166e0	41.754		

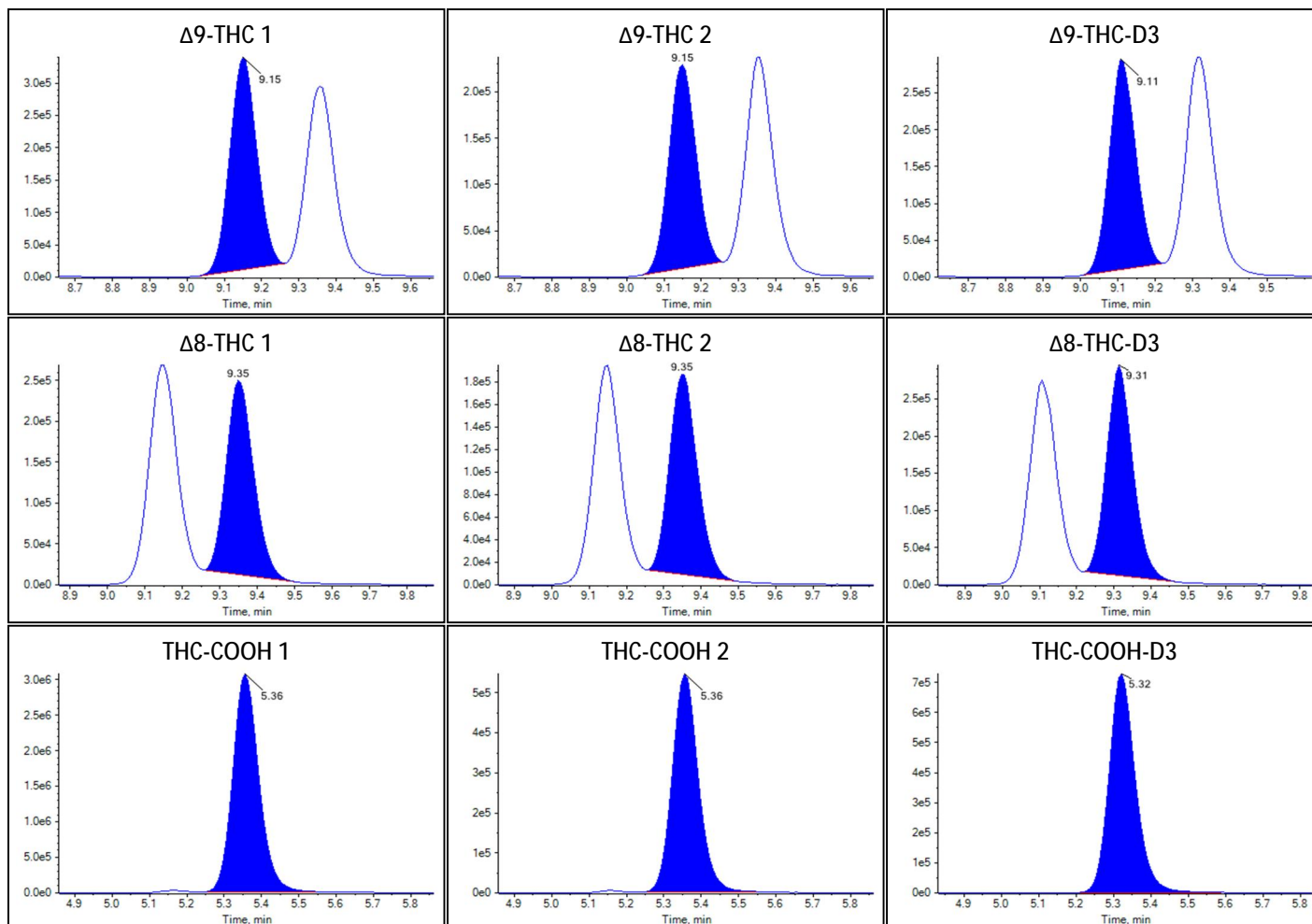
Identification Summary: Medium

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Medium



Peak Review: Medium





Sample Summary

Sample Name	5 µL injection
Acquisition Date/Time	2022-09-22T17:35:56
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	1
Sample Comment	

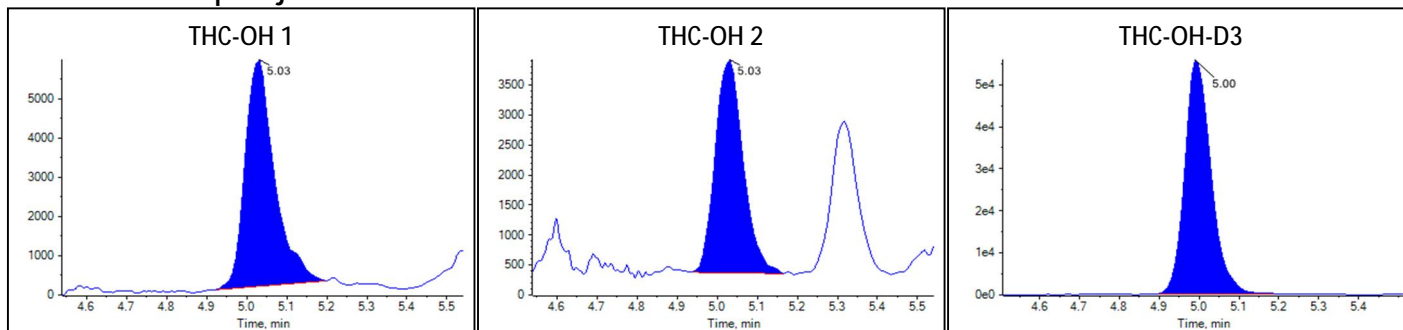
Quantitative Summary

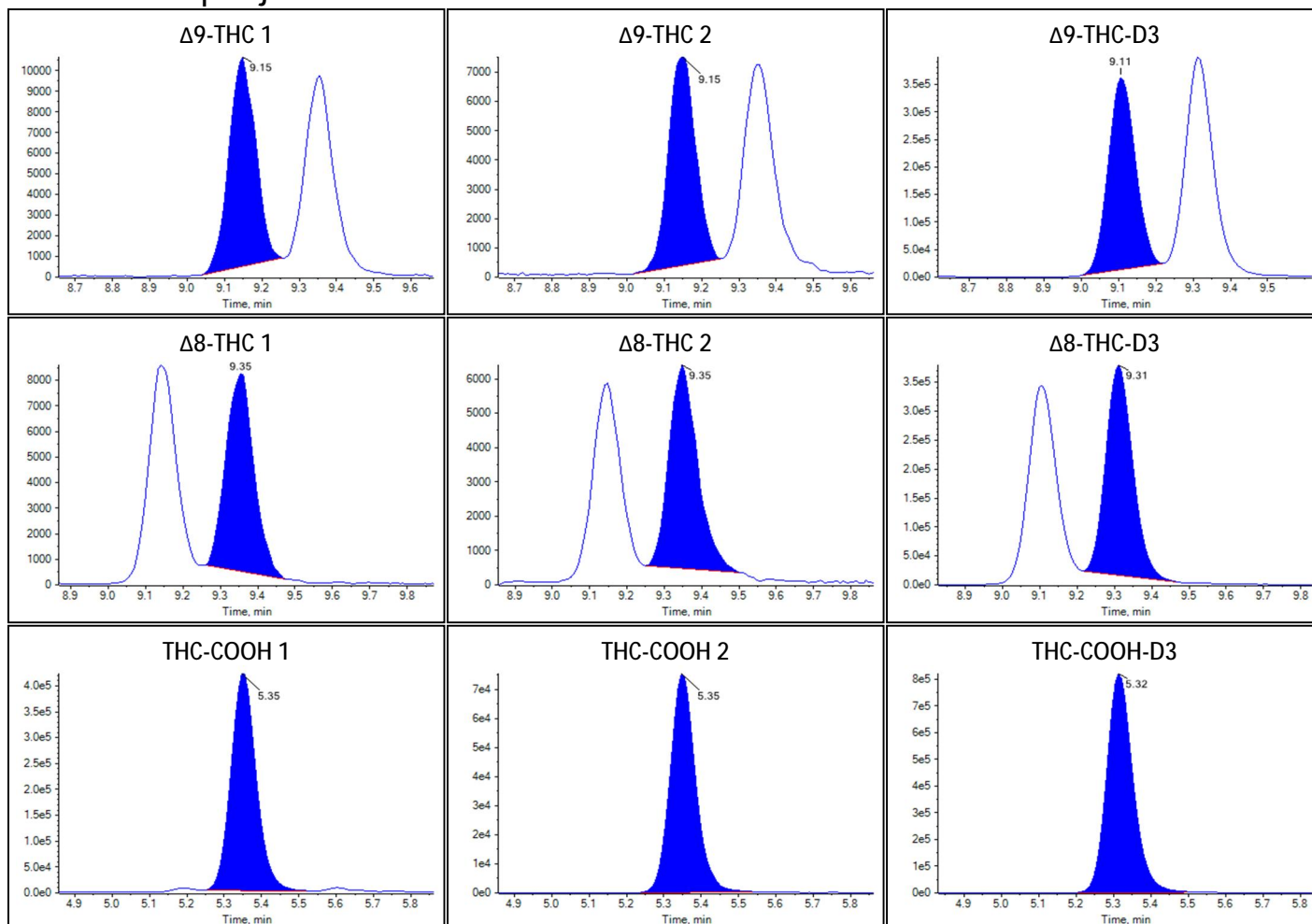
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.157e-1	0.984		
Δ9-THC	2.858e-2	1.047		
Δ8-THC	2.216e-2	1.094		
THC-COOH	4.910e-1	4.859		

Identification Summary: 5 µL injection

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: 5 µL injection



Peak Review: 5 μ L injection



Sample Summary

Sample Name	Case 1
Acquisition Date/Time	2022-09-22T17:50:01
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	11
Sample Comment	

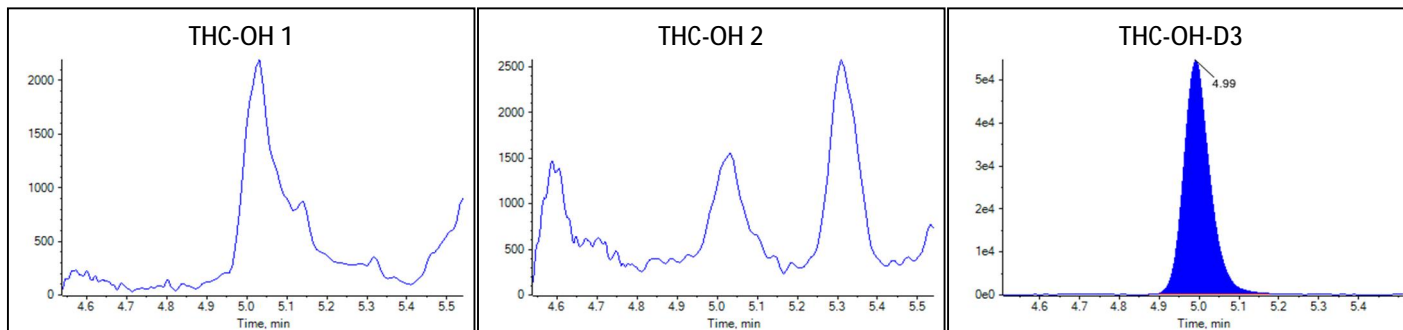
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	1.710e-2	0.684		
Δ^8 -THC	N/A	N/A		
THC-COOH	5.822e-1	5.774		

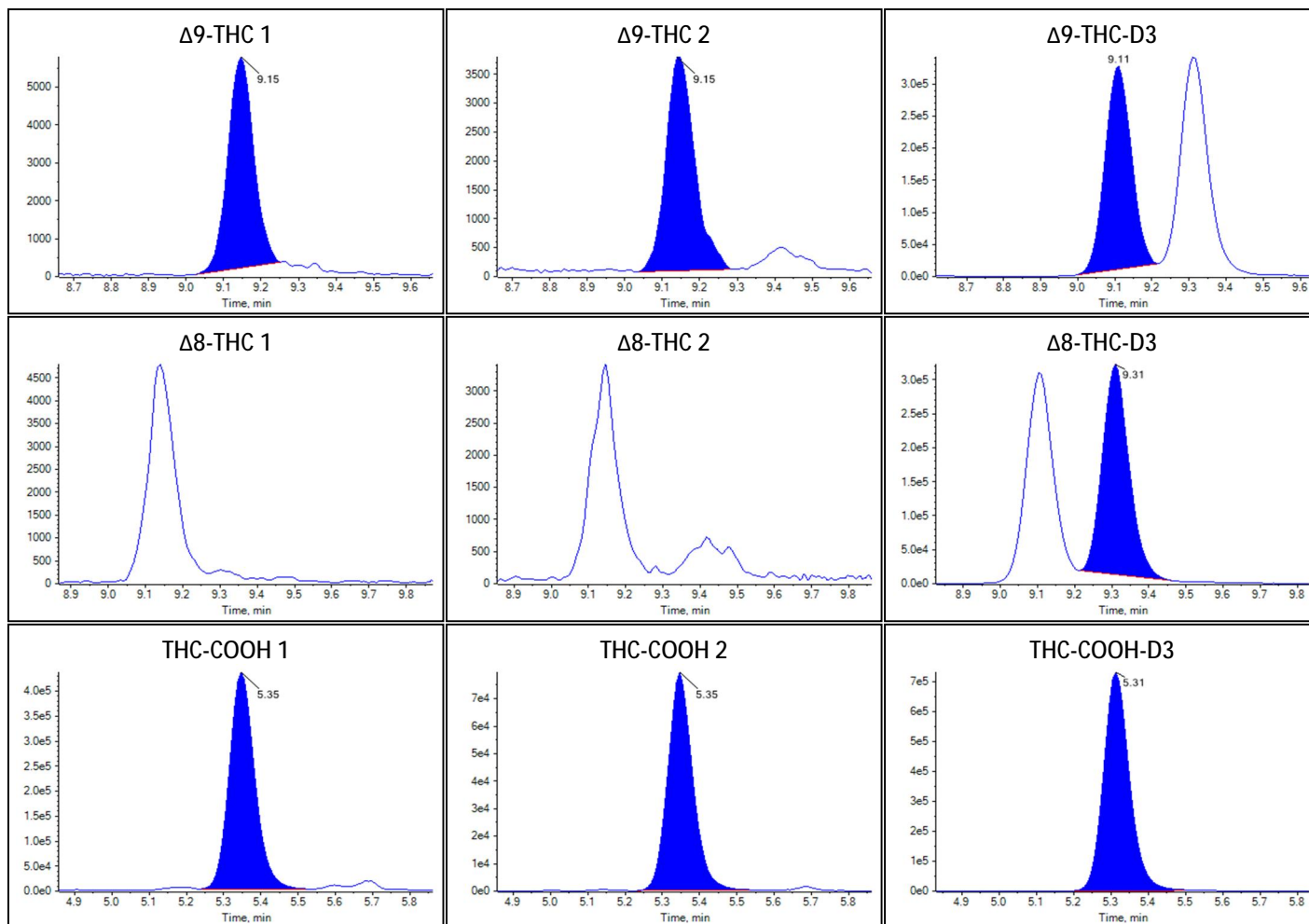
Identification Summary: Case 1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 1



Peak Review: Case 1





Sample Summary

Sample Name	Case 2
Acquisition Date/Time	2022-09-22T18:04:06
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	12
Sample Comment	

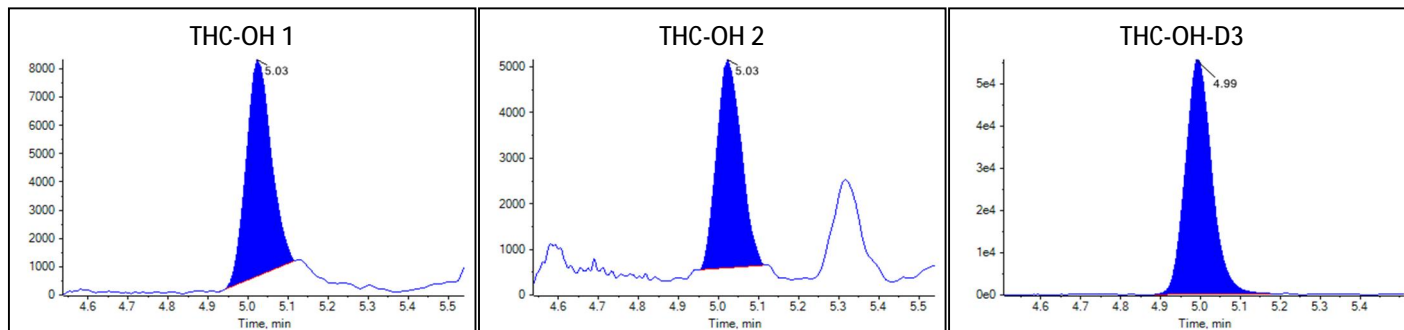
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.302e-1	1.109		
Δ^9 -THC	4.834e-2	1.672		
Δ^8 -THC	N/A	N/A		
THC-COOH	2.404e0	24.060		

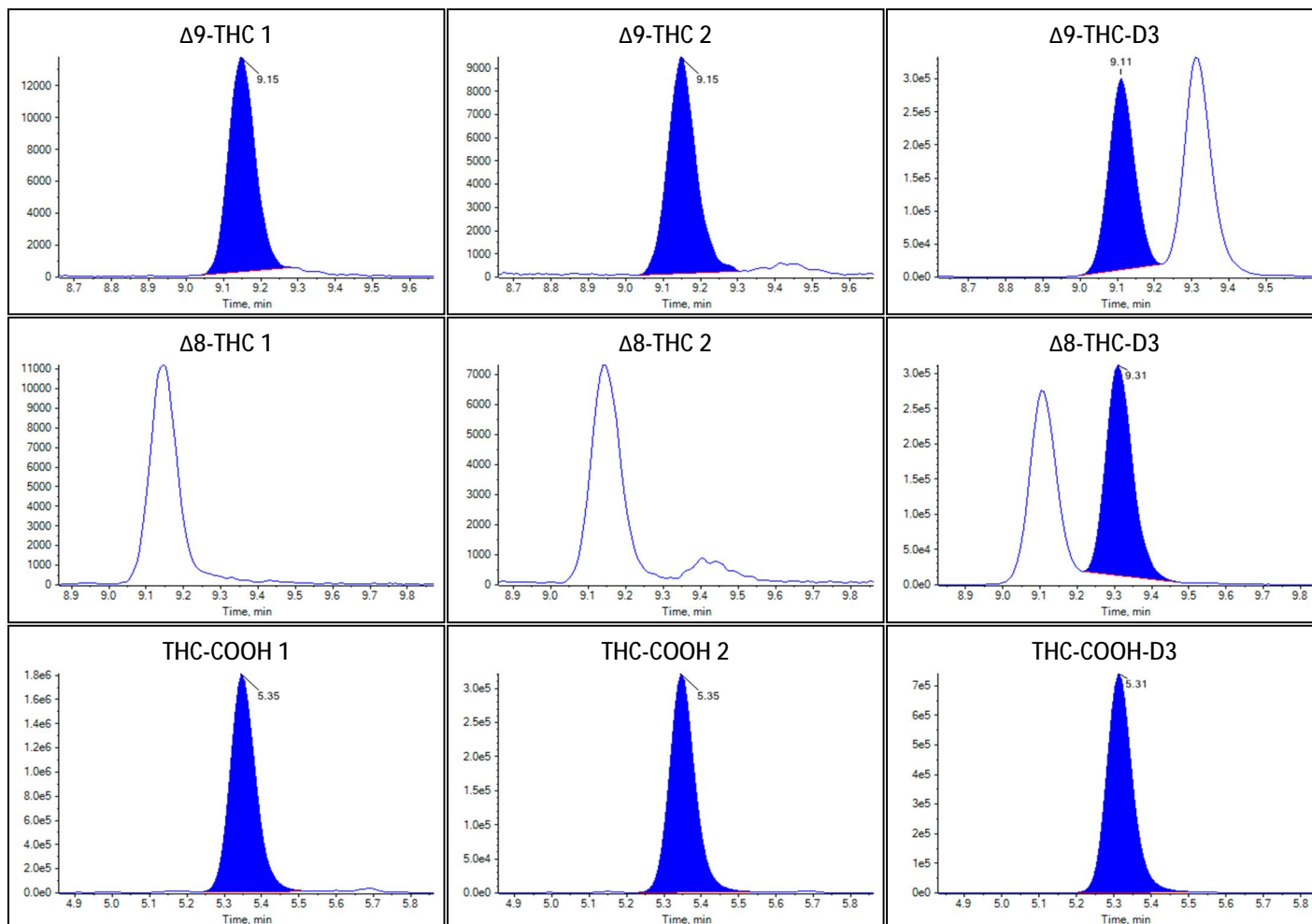
Identification Summary: Case 2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 2



Peak Review: Case 2





Sample Summary

Sample Name	Case 3
Acquisition Date/Time	2022-09-22T18:18:12
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	13
Sample Comment	

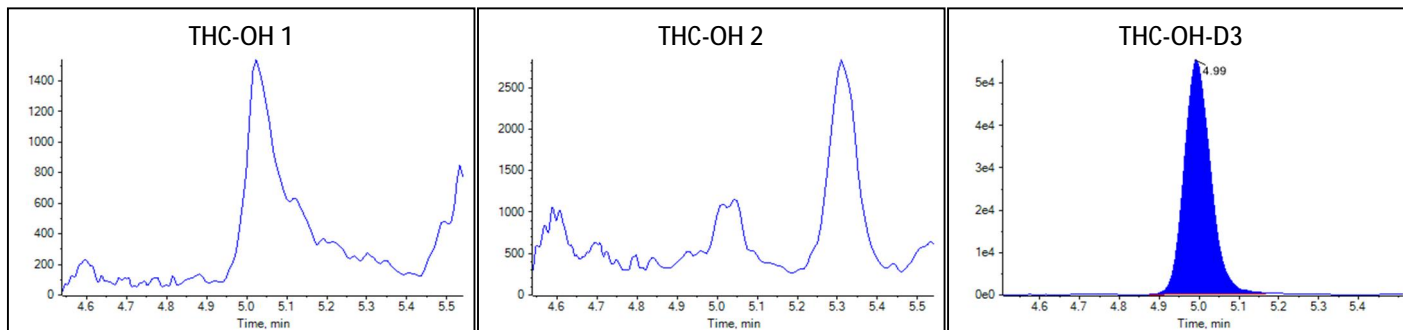
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	2.938e-2	1.072		
Δ^8 -THC	N/A	N/A		
THC-COOH	1.507e0	15.058		

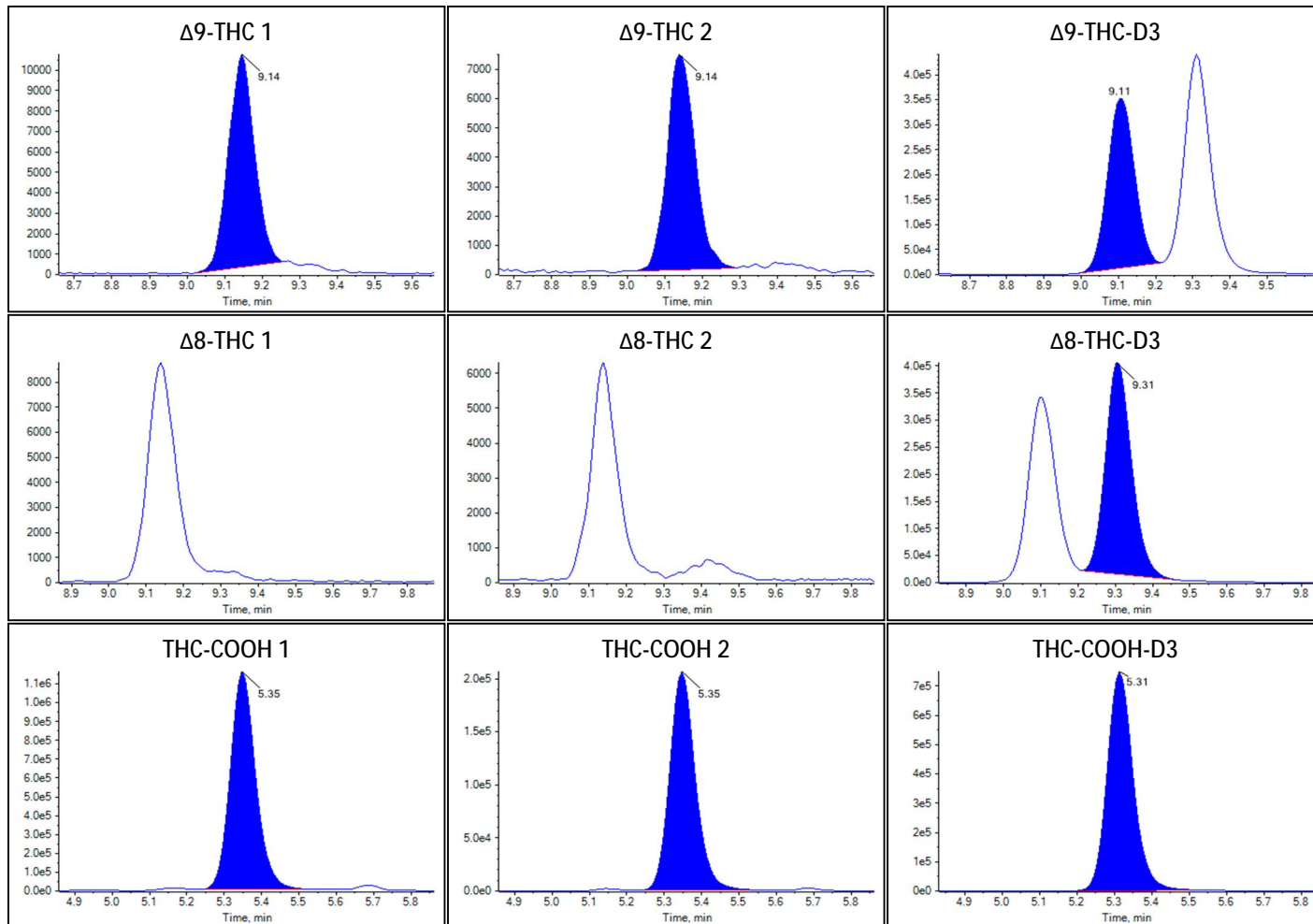
Identification Summary: Case 3

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 3



Peak Review: Case 3





Sample Summary

Sample Name	Case 4
Acquisition Date/Time	2022-09-22T18:32:17
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	14
Sample Comment	

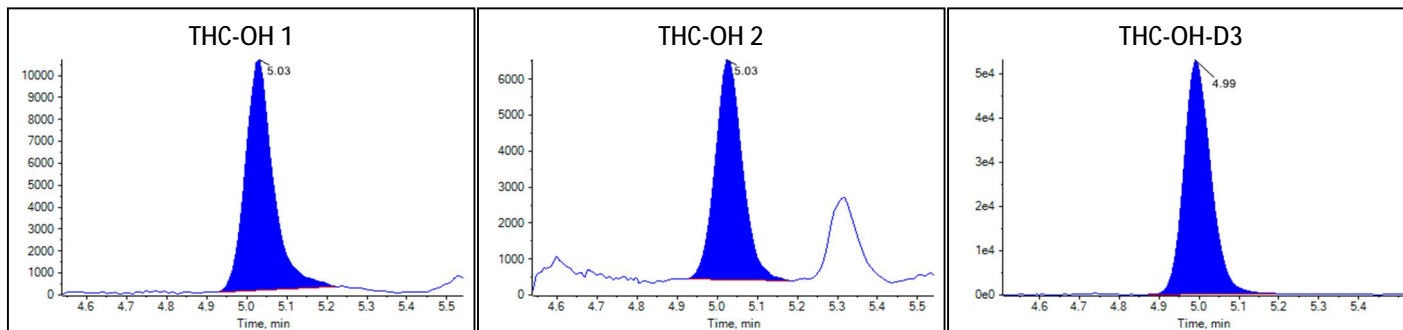
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.046e-1	1.754		
Δ 9-THC	2.254e-1	7.304		
Δ 8-THC	N/A	N/A		
THC-COOH	4.704e0	47.146		

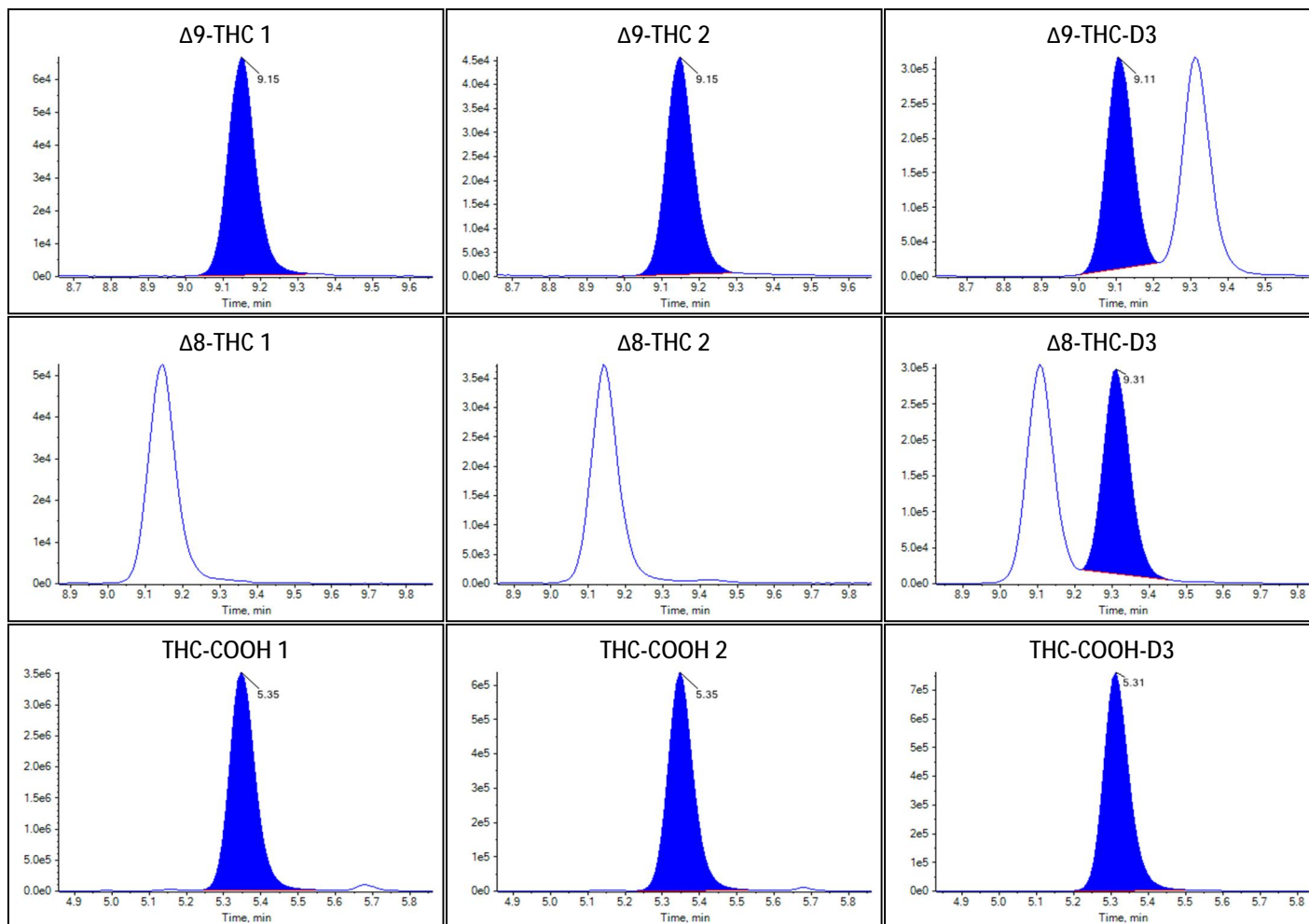
Identification Summary: Case 4

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	
Δ 8-THC 1	315.1 / 193.1	N/A	
Δ 8-THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 4



Peak Review: Case 4





Sample Summary

Sample Name	Case 5
Acquisition Date/Time	2022-09-22T18:46:23
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	15
Sample Comment	

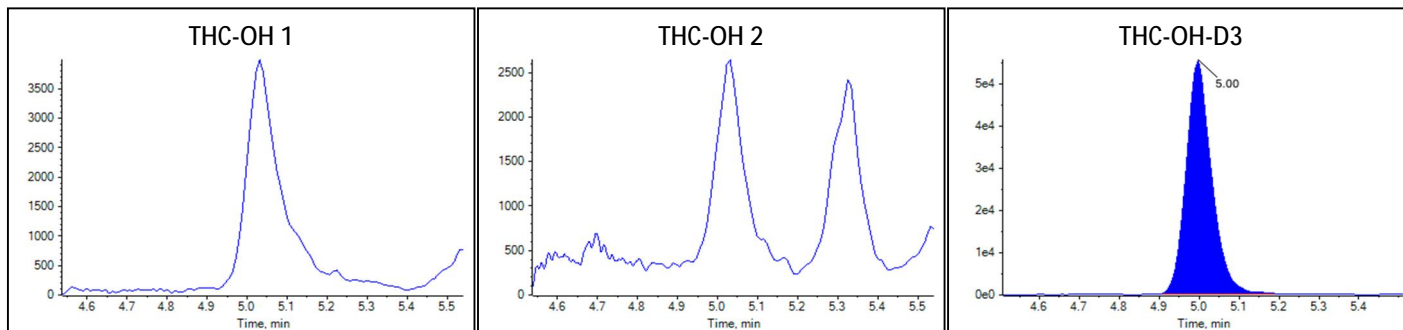
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	3.351e-2	1.203		
Δ^8 -THC	N/A	N/A		
THC-COOH	7.292e-1	7.250		

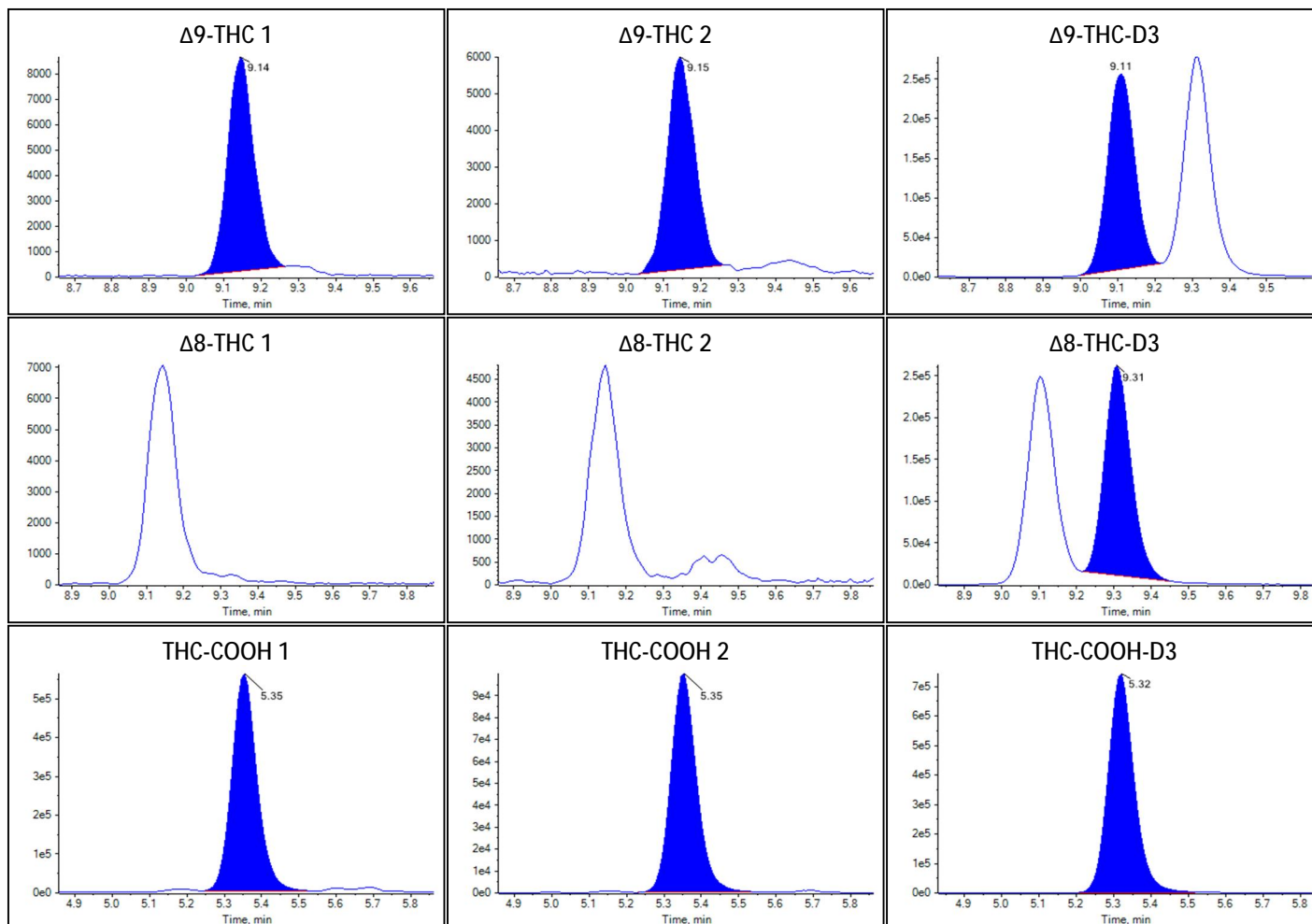
Identification Summary: Case 5

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 5



Peak Review: Case 5





Sample Summary

Sample Name	Case 6
Acquisition Date/Time	2022-09-22T19:00:28
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	16
Sample Comment	

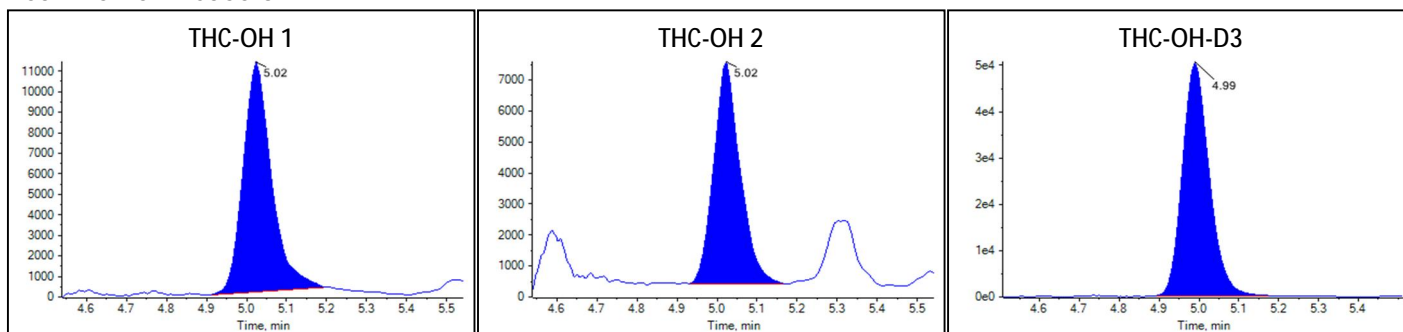
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.345e-1	2.013		
Δ 9-THC	2.281e-1	7.390		
Δ 8-THC	N/A	N/A		
THC-COOH	1.232e1	123.606		

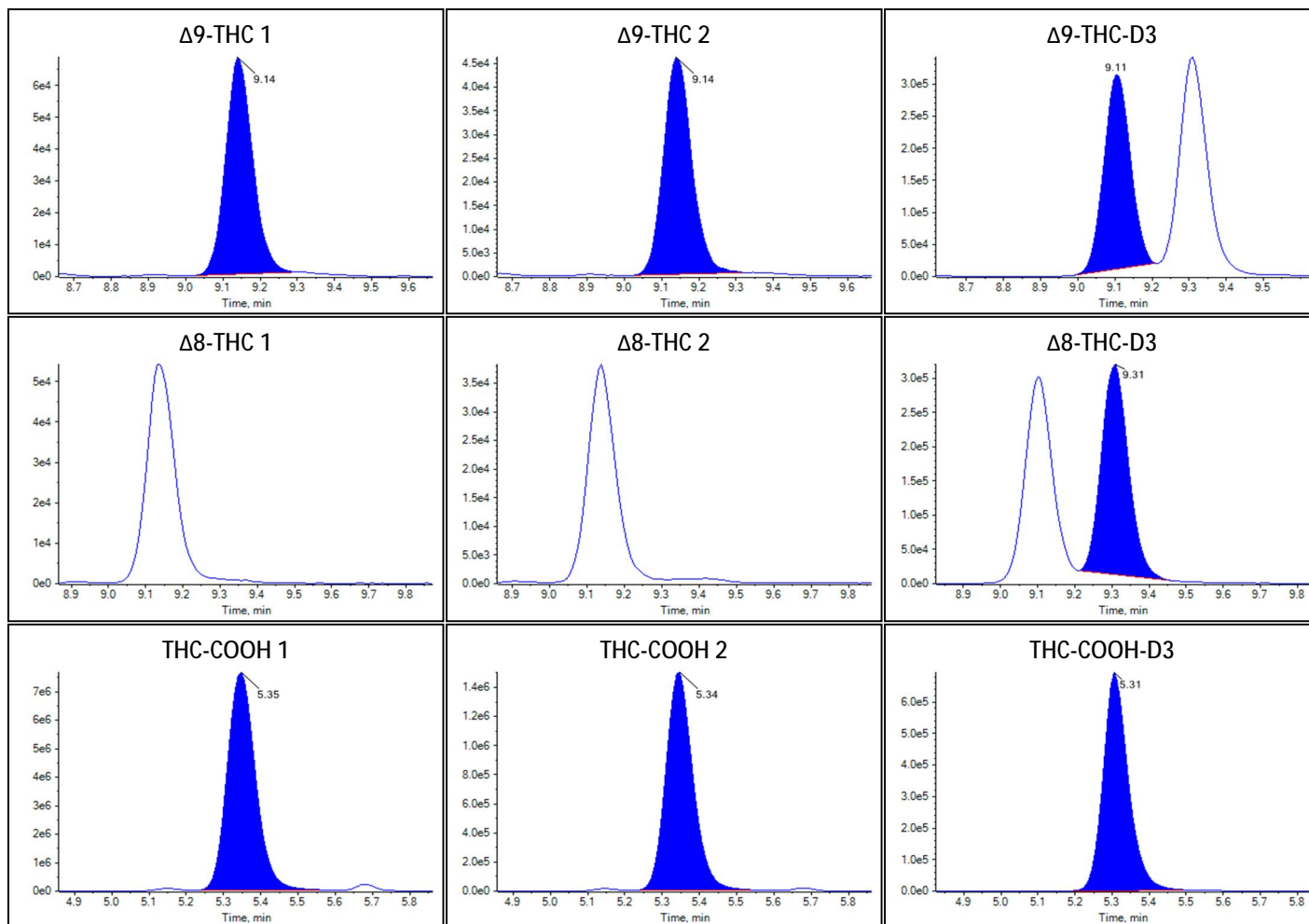
Identification Summary: Case 6

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	
Δ 8-THC 1	315.1 / 193.1	N/A	
Δ 8-THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 6



Peak Review: Case 6





Sample Summary

Sample Name	Case 7
Acquisition Date/Time	2022-09-22T19:14:33
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	17
Sample Comment	

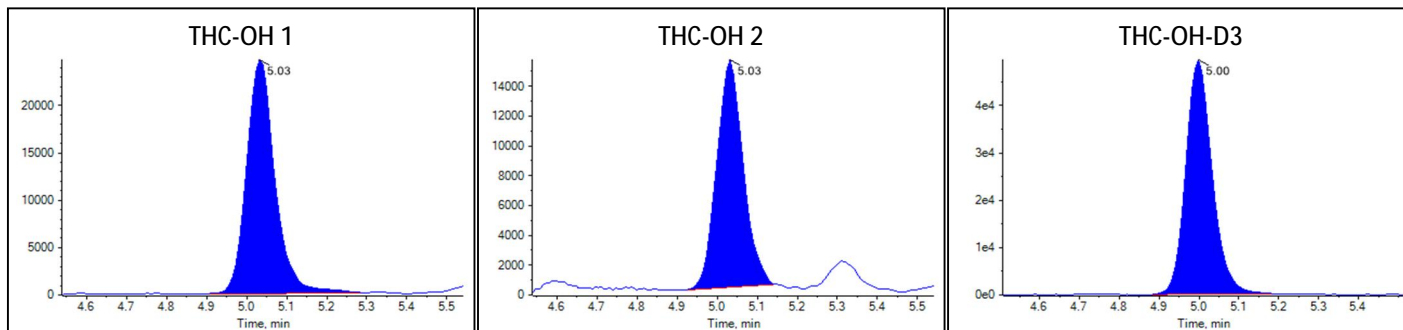
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	5.368e-1	4.632		
Δ^9 -THC	3.013e-1	9.736		
Δ^8 -THC	N/A	N/A		
THC-COOH	7.791e0	78.135		

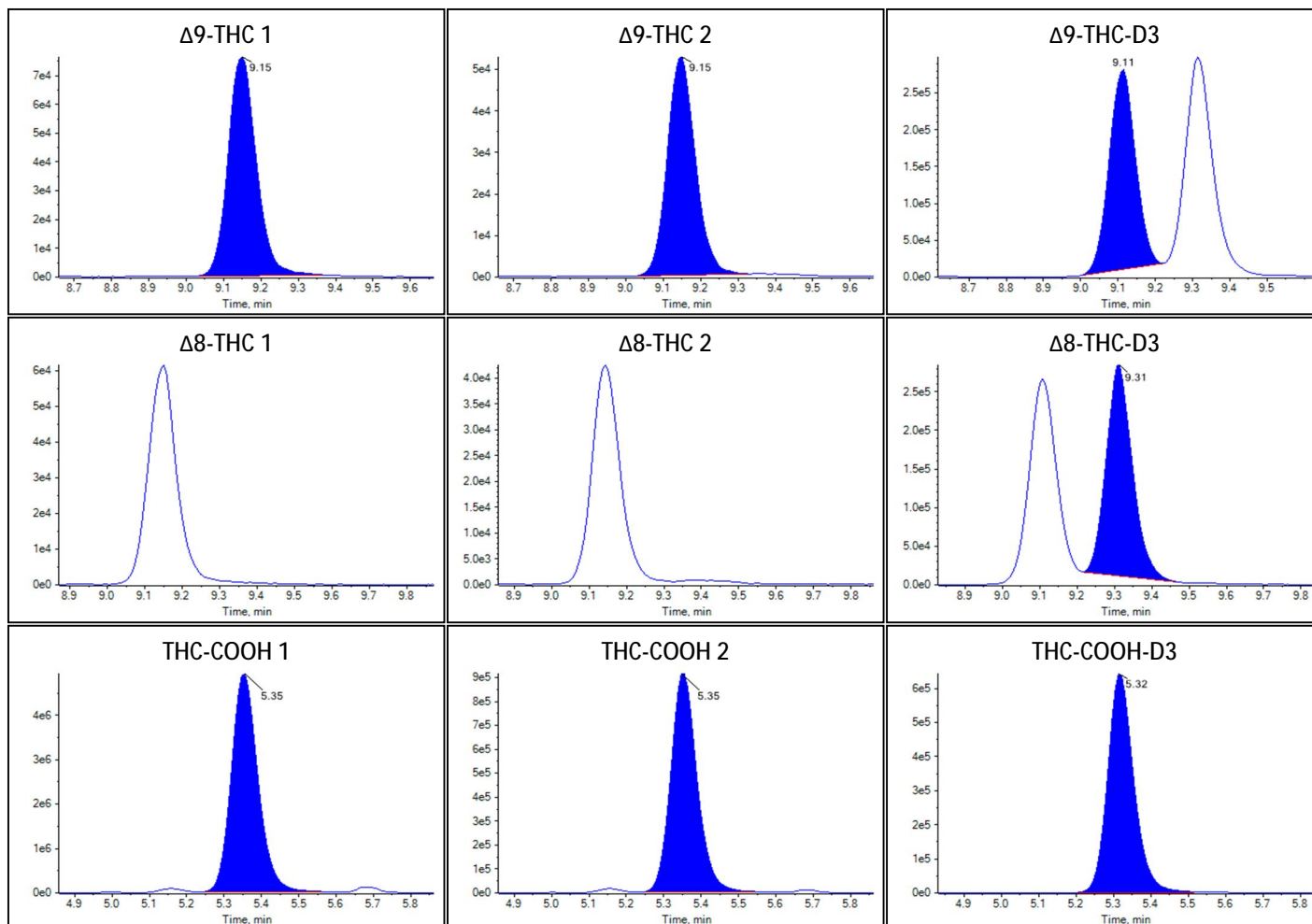
Identification Summary: Case 7

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 7



Peak Review: Case 7





Sample Summary

Sample Name	Case 8
Acquisition Date/Time	2022-09-22T19:28:39
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	18
Sample Comment	

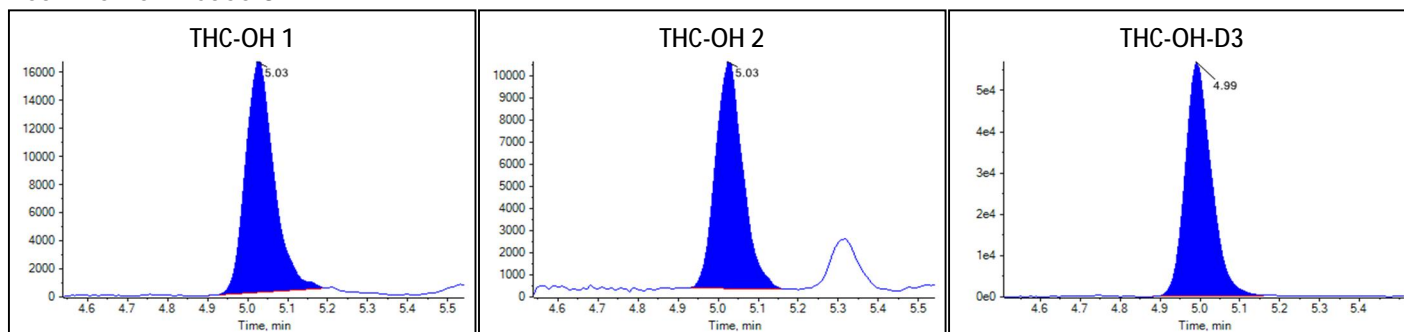
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	3.180e-1	2.736		
Δ^9 -THC	1.159e-1	3.814		
Δ^8 -THC	N/A	N/A		
THC-COOH	5.385e0	53.988		

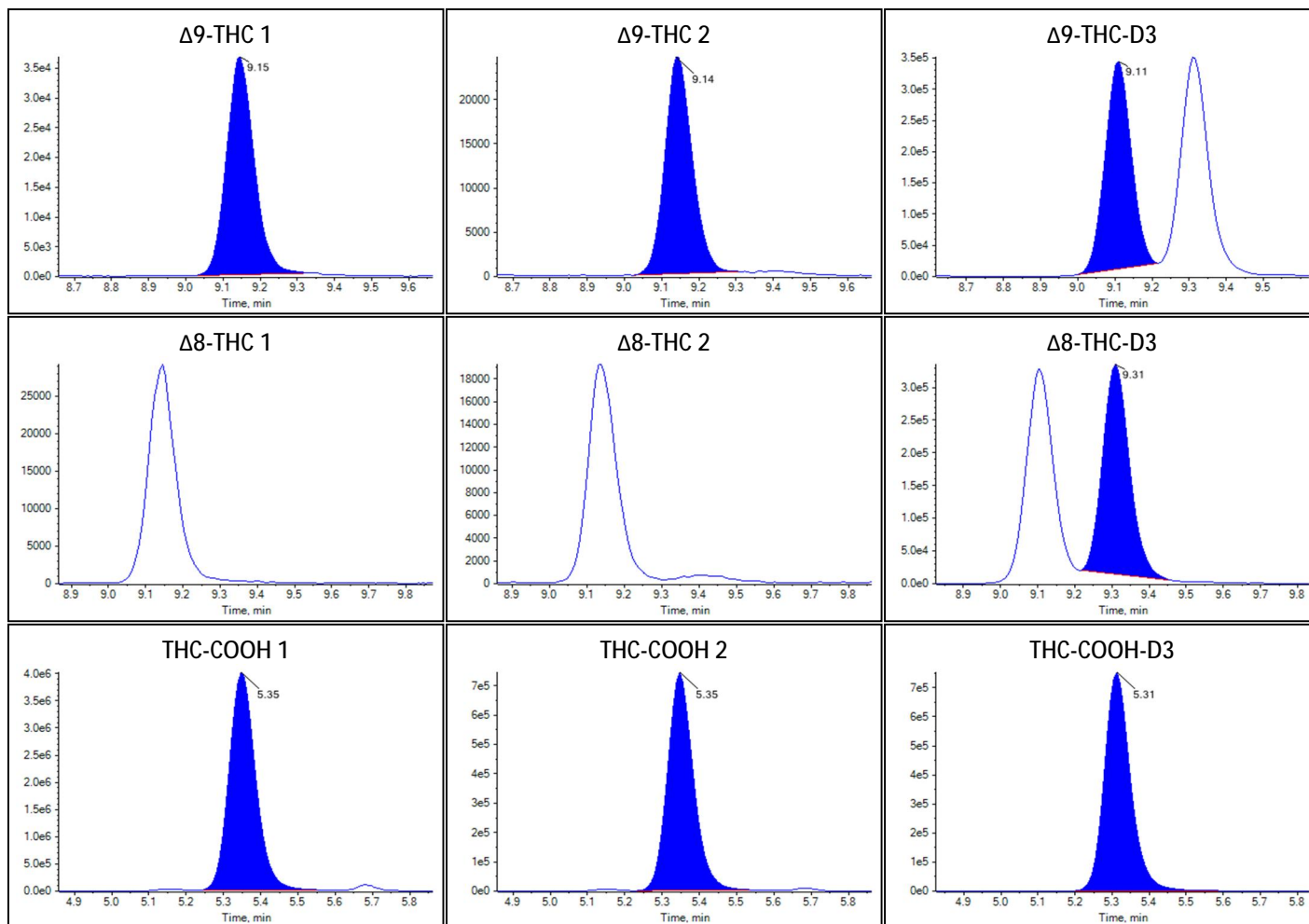
Identification Summary: Case 8

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 8



Peak Review: Case 8





Sample Summary

Sample Name	Case 9
Acquisition Date/Time	2022-09-22T19:42:44
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	19
Sample Comment	

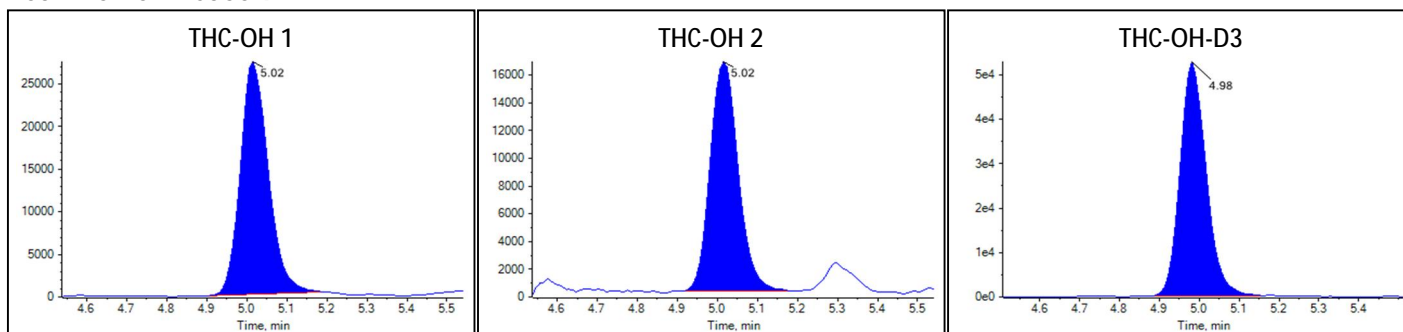
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	5.530e-1	4.772		
Δ 9-THC	3.161e-1	10.213		
Δ 8-THC	N/A	N/A		
THC-COOH	9.055e0	90.825		

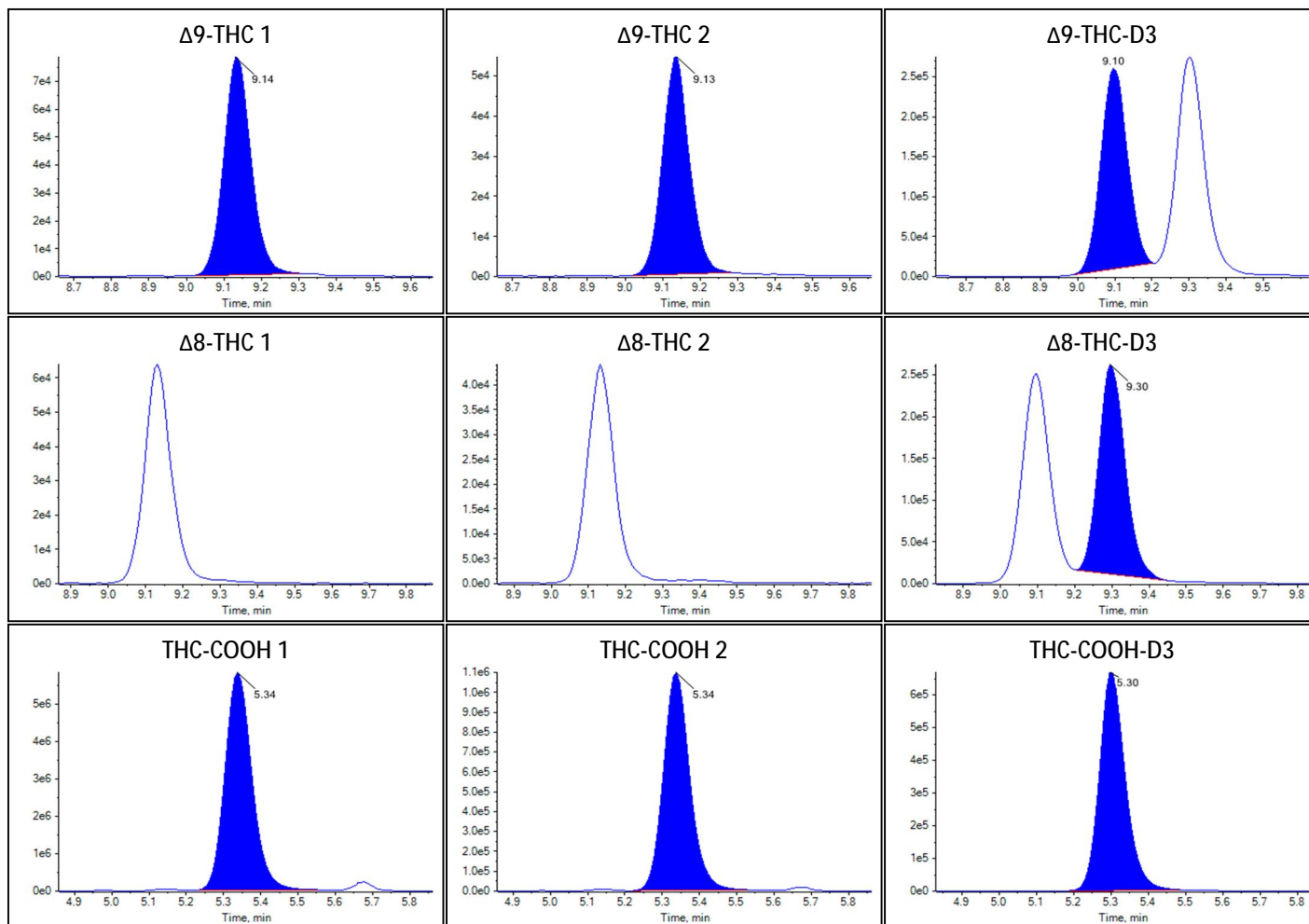
Identification Summary: Case 9

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	
Δ 8-THC 1	315.1 / 193.1	N/A	
Δ 8-THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 9



Peak Review: Case 9





Sample Summary

Sample Name	Case 10
Acquisition Date/Time	2022-09-22T19:56:50
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	20
Sample Comment	

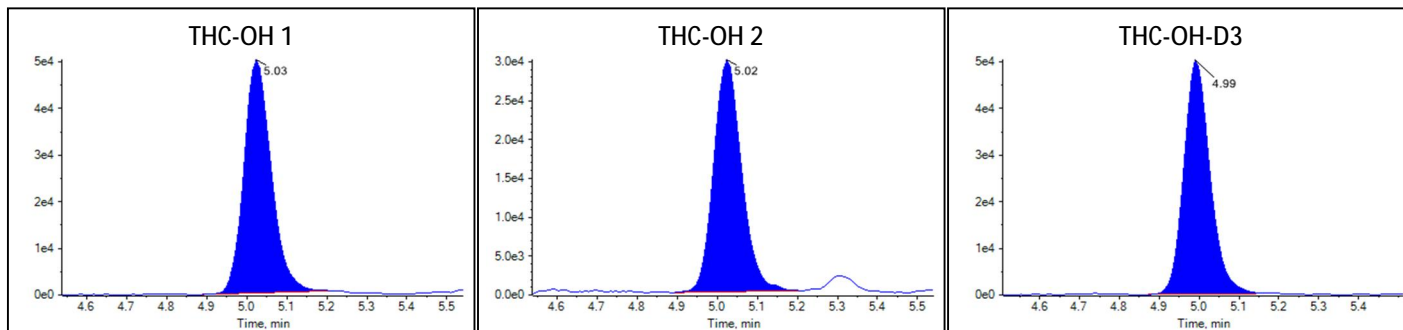
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.040e0	8.995		
Δ 9-THC	1.099e0	36.006		
Δ 8-THC	N/A	N/A		
THC-COOH	1.027e1	103.068		

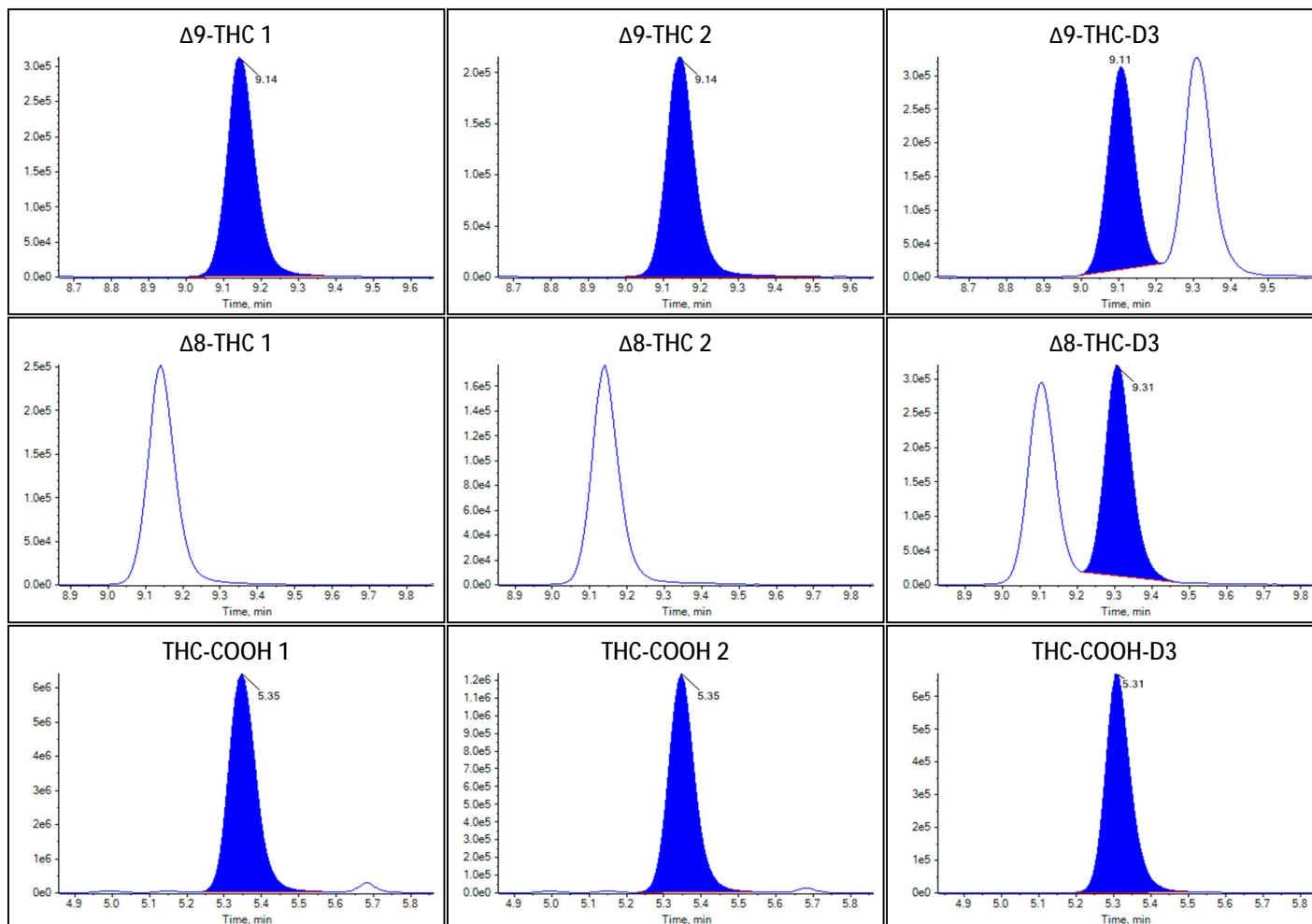
Identification Summary: Case 10

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	
Δ 8-THC 1	315.1 / 193.1	N/A	
Δ 8-THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 10



Peak Review: Case 10





Sample Summary

Sample Name	Case 11
Acquisition Date/Time	2022-09-22T20:10:55
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	21
Sample Comment	

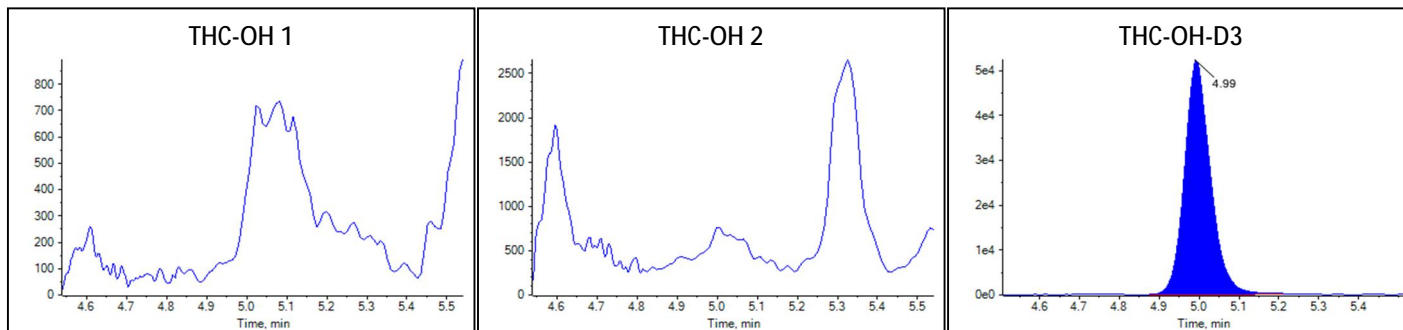
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	8.863e-3	0.424		
Δ^8 -THC	N/A	N/A		
THC-COOH	8.278e-1	8.240		

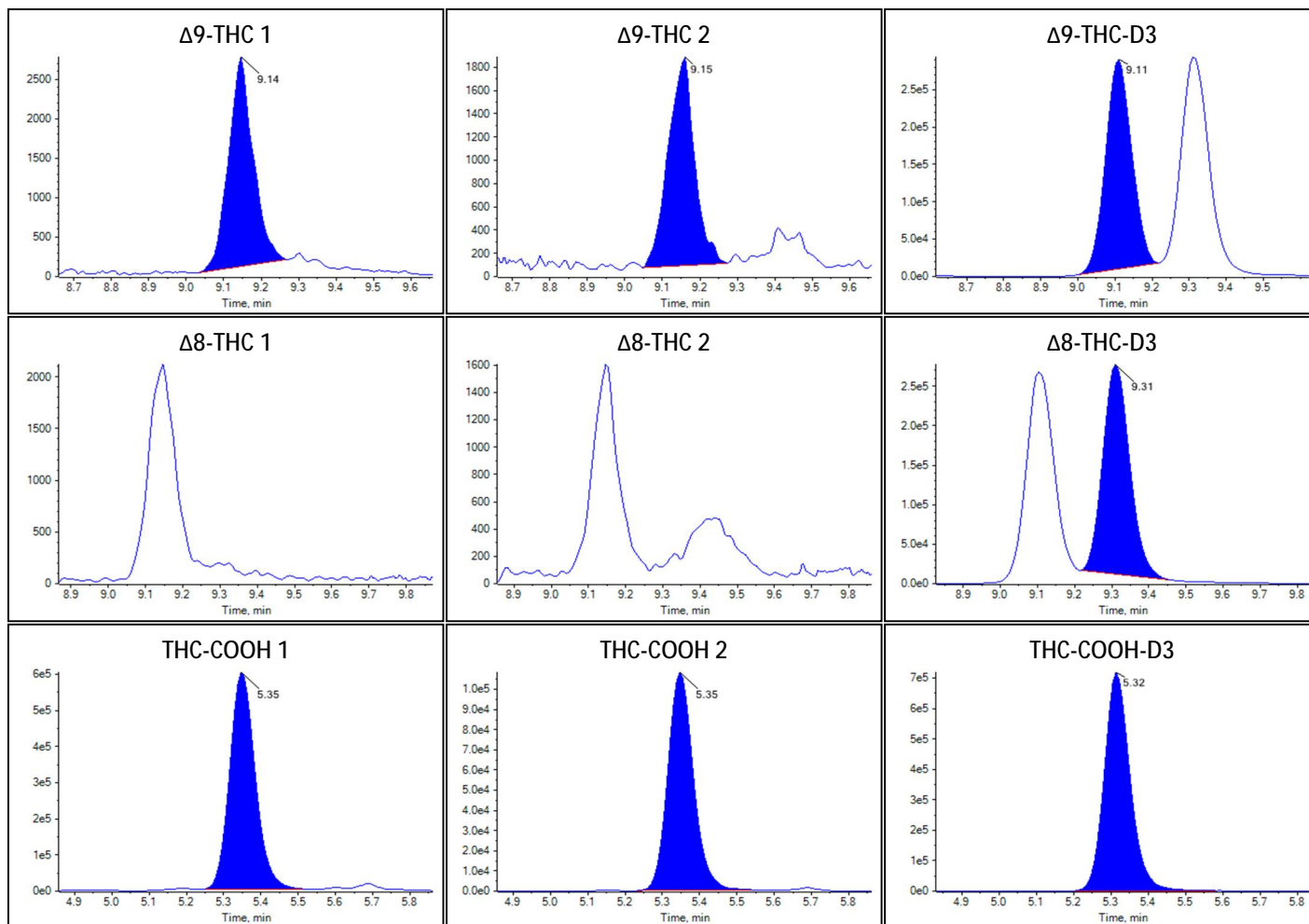
Identification Summary: Case 11

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 11



Peak Review: Case 11





Sample Summary

Sample Name	Case 12
Acquisition Date/Time	2022-09-22T20:25:00
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	22
Sample Comment	

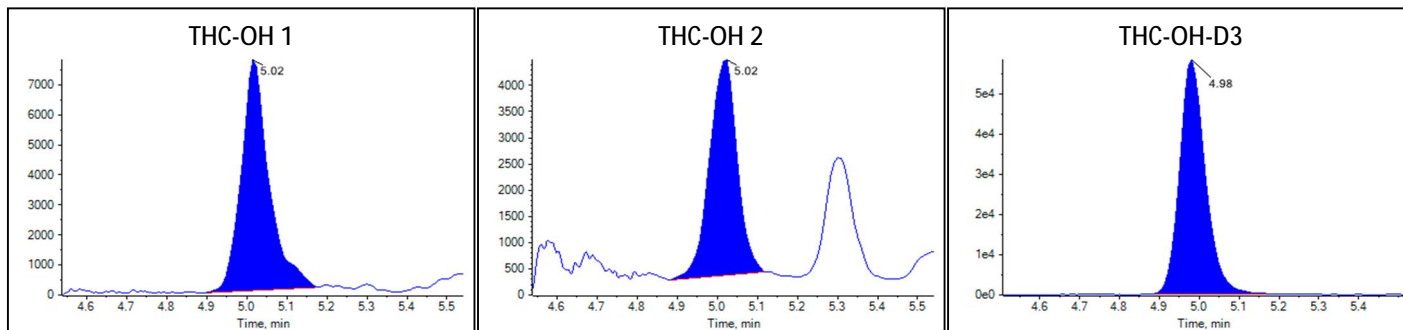
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.424e-1	1.215		
Δ 9-THC	5.761e-2	1.965		
Δ 8-THC	N/A	N/A		
THC-COOH	1.532e0	15.305		

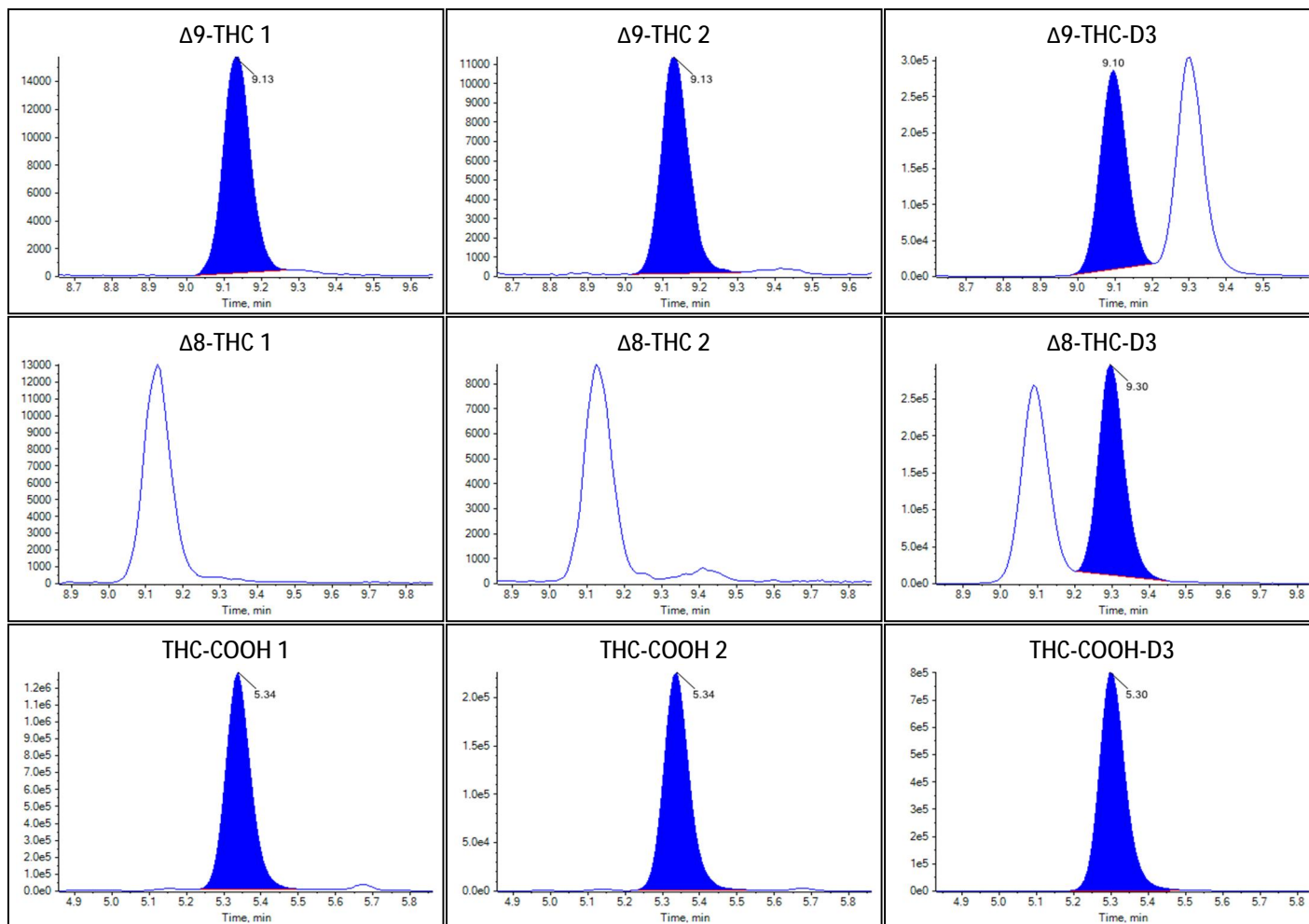
Identification Summary: Case 12

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	
Δ 8-THC 1	315.1 / 193.1	N/A	
Δ 8-THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 12



Peak Review: Case 12





Sample Summary

Sample Name	Case 13
Acquisition Date/Time	2022-09-22T20:39:06
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	23
Sample Comment	

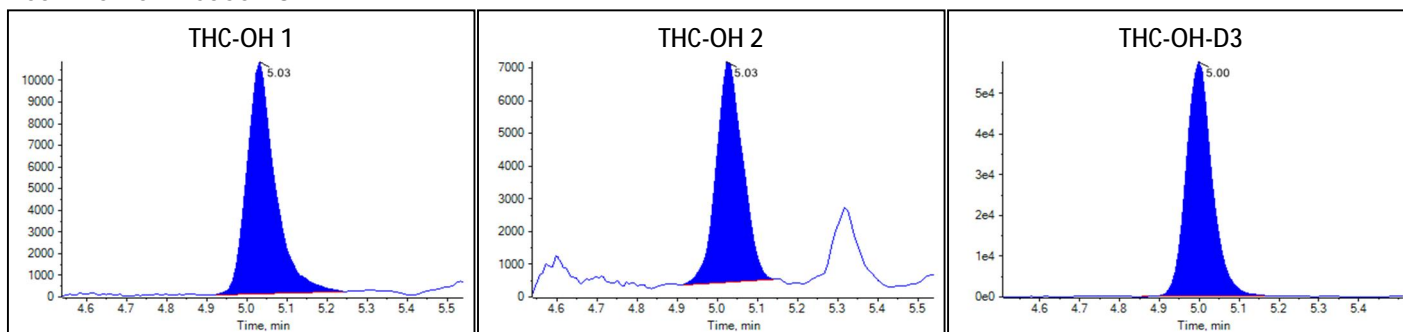
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.023e-1	1.734		
Δ 9-THC	1.053e-1	3.477		
Δ 8-THC	N/A	N/A		
THC-COOH	4.808e0	48.192		

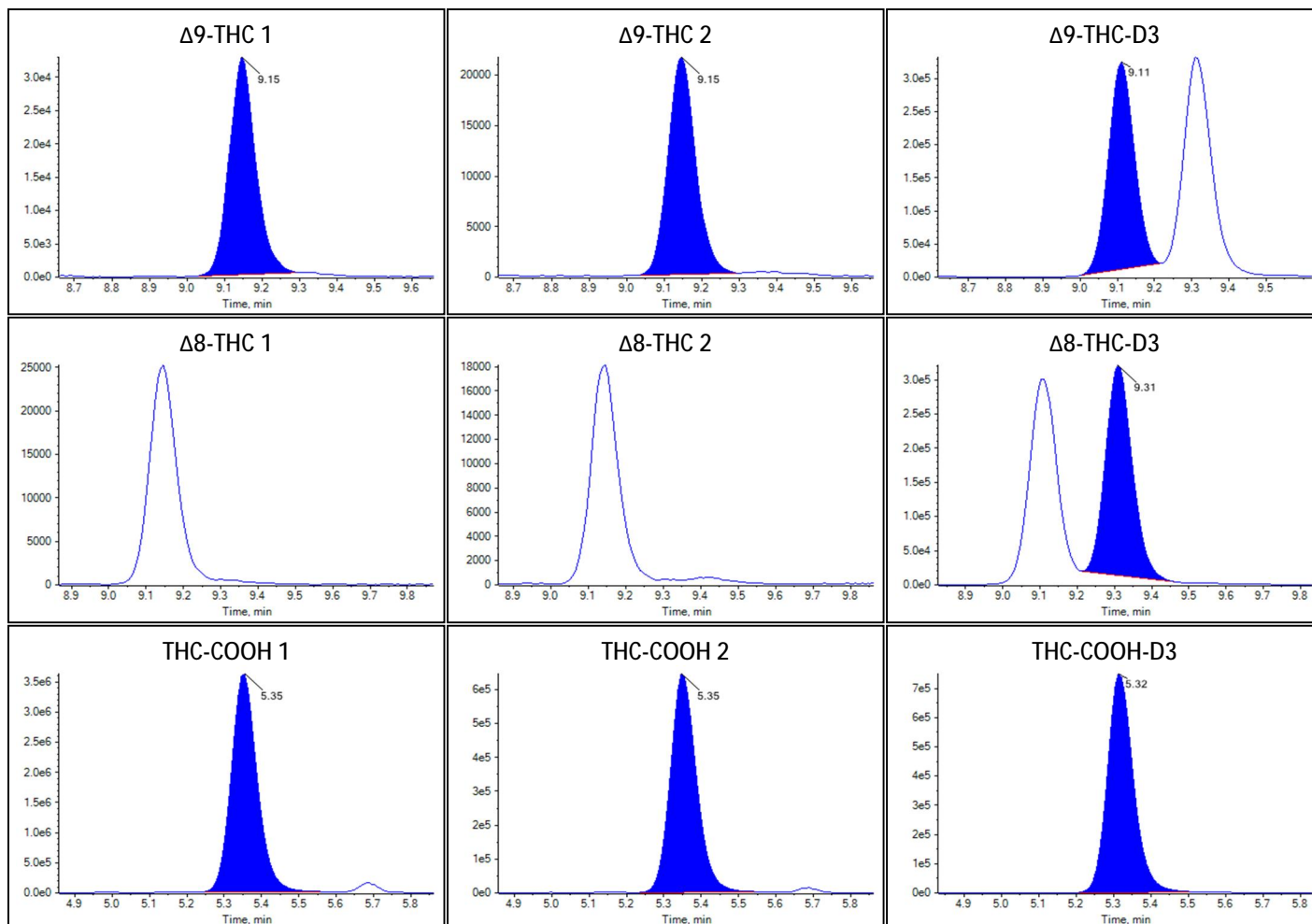
Identification Summary: Case 13

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	
Δ 8-THC 1	315.1 / 193.1	N/A	
Δ 8-THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 13



Peak Review: Case 13





Sample Summary

Sample Name	Case 14
Acquisition Date/Time	2022-09-22T20:53:11
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	24
Sample Comment	

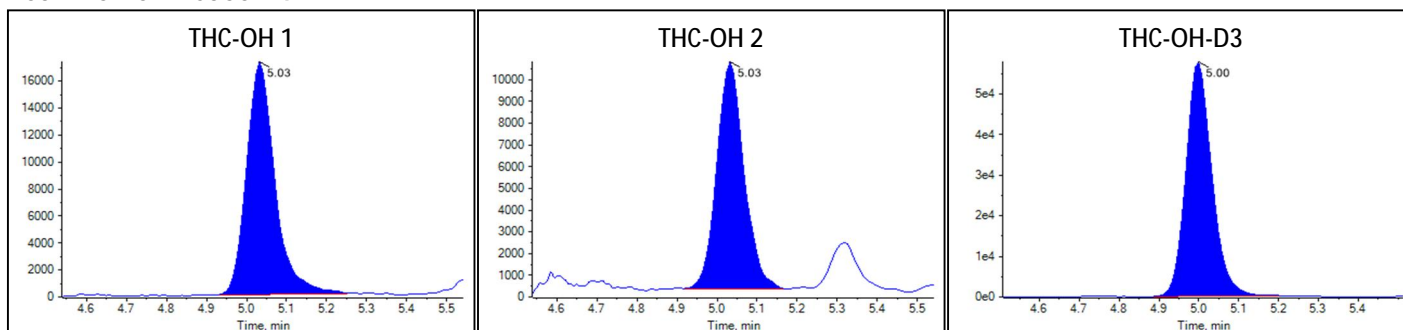
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	3.230e-1	2.779		
Δ 9-THC	2.687e-1	8.690		
Δ 8-THC	N/A	N/A		
THC-COOH	1.025e1	102.808		

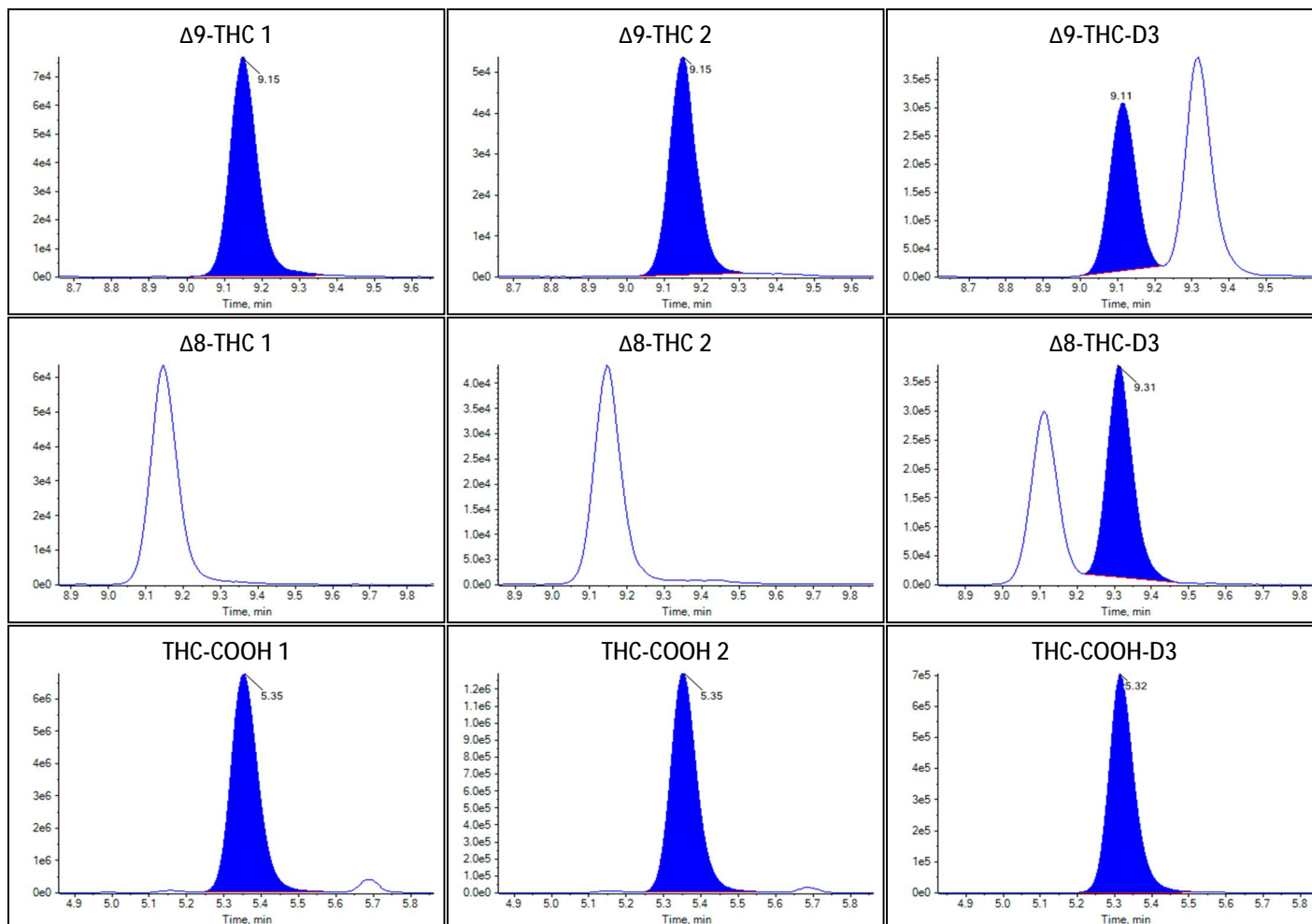
Identification Summary: Case 14

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	
Δ 8-THC 1	315.1 / 193.1	N/A	
Δ 8-THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 14



Peak Review: Case 14





Sample Summary

Sample Name	Case 15
Acquisition Date/Time	2022-09-22T21:07:17
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	25
Sample Comment	

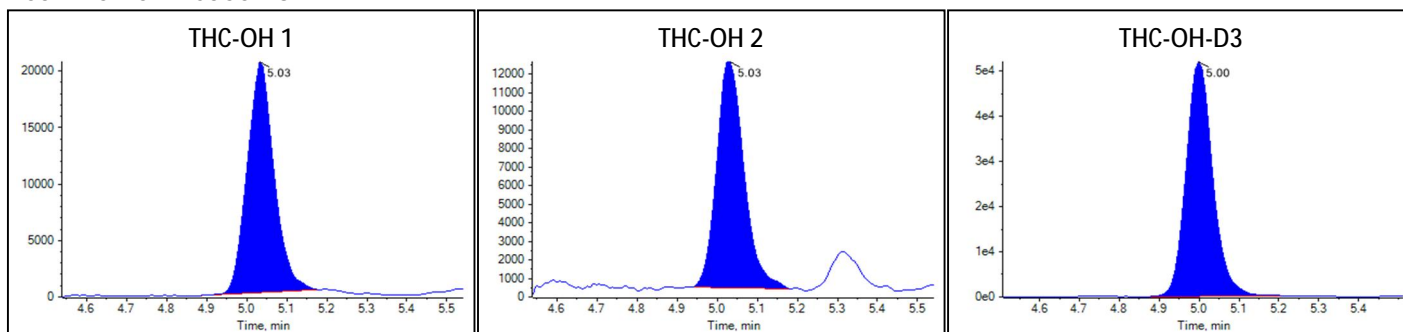
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	3.925e-1	3.382		
Δ 9-THC	1.587e-1	5.174		
Δ 8-THC	N/A	N/A		
THC-COOH	9.085e0	91.131		

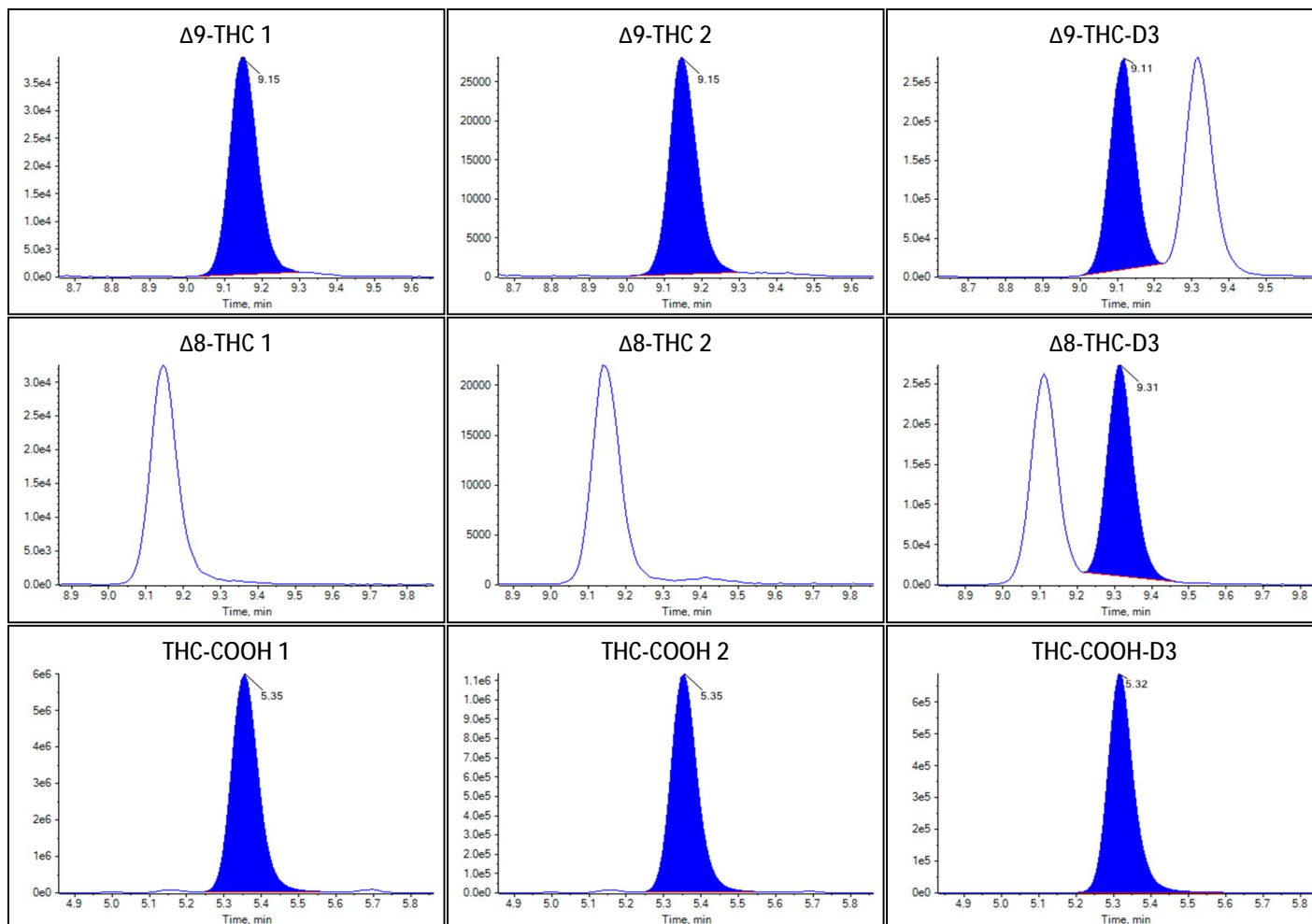
Identification Summary: Case 15

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	
Δ 8-THC 1	315.1 / 193.1	N/A	
Δ 8-THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 15



Peak Review: Case 15





Sample Summary

Sample Name	Case 16
Acquisition Date/Time	2022-09-22T21:21:22
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	26
Sample Comment	

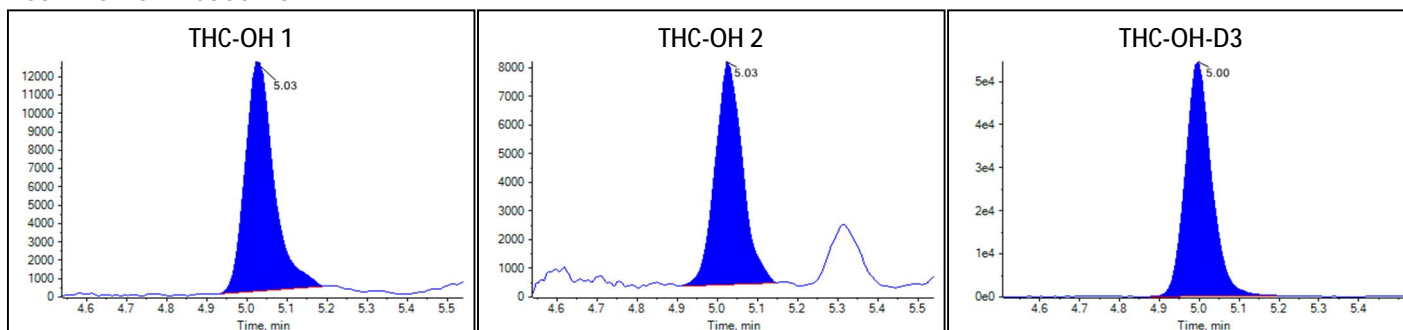
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.517e-1	2.162		
Δ 9-THC	2.328e-1	7.540		
Δ 8-THC	N/A	N/A		
THC-COOH	5.958e0	59.742		

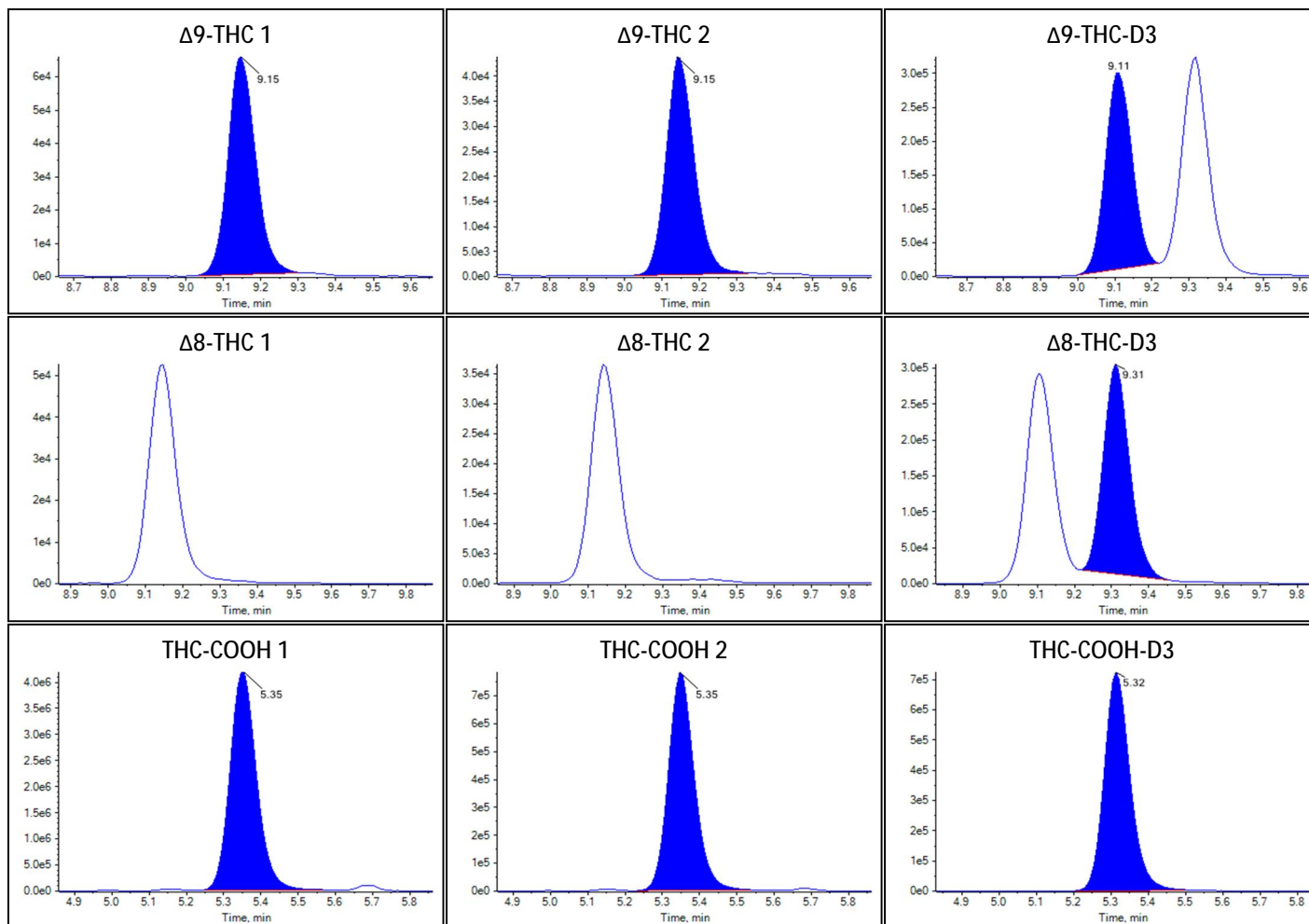
Identification Summary: Case 16

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	
Δ 8-THC 1	315.1 / 193.1	N/A	
Δ 8-THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 16



Peak Review: Case 16





Sample Summary

Sample Name	Case 17
Acquisition Date/Time	2022-09-22T21:35:27
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	27
Sample Comment	

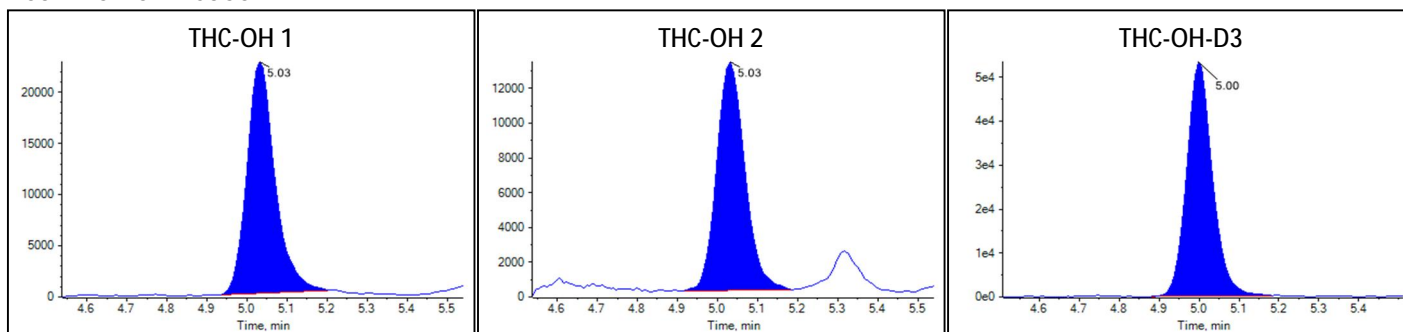
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	4.609e-1	3.974		
Δ^9 -THC	3.169e-1	10.238		
Δ^8 -THC	N/A	N/A		
THC-COOH	7.640e0	76.620		

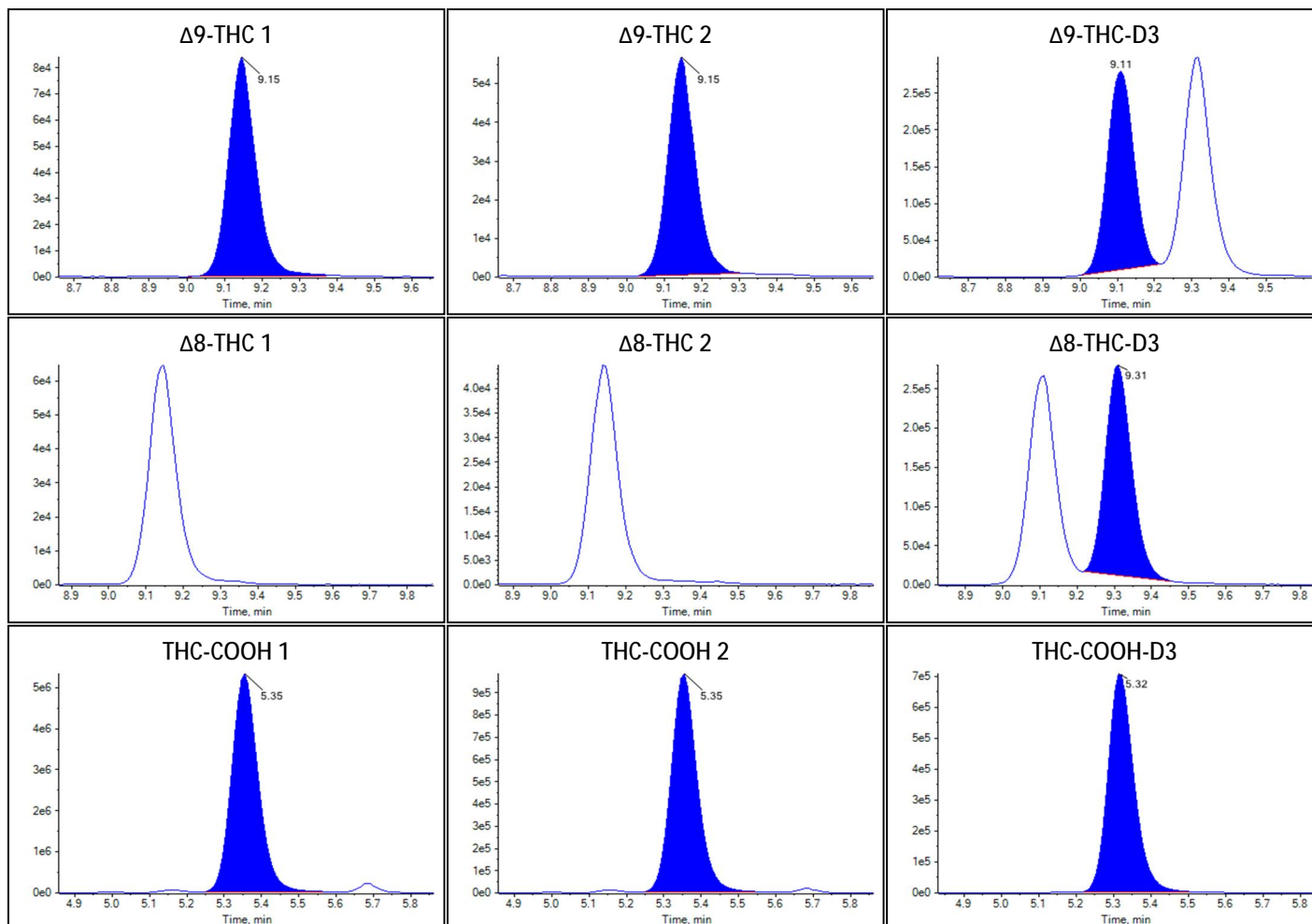
Identification Summary: Case 17

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 17



Peak Review: Case 17





Sample Summary

Sample Name	Case 18
Acquisition Date/Time	2022-09-22T21:49:36
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	28
Sample Comment	

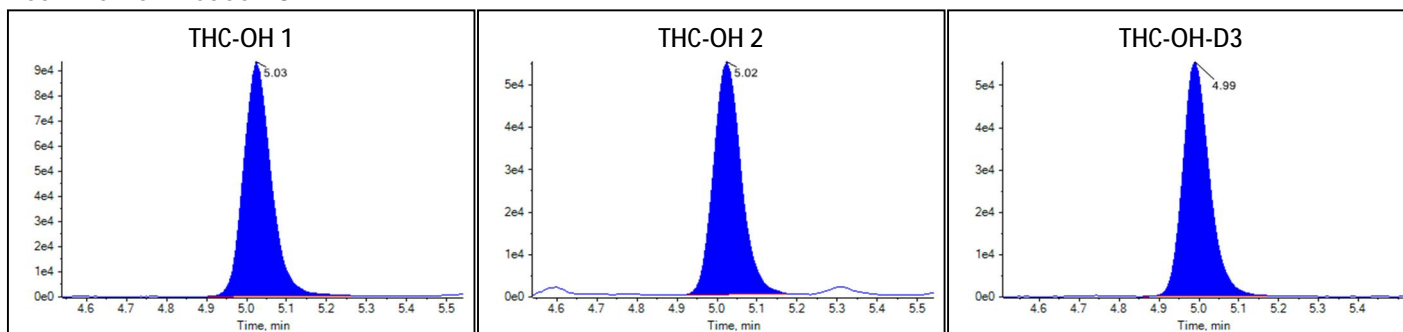
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.742e0	15.069		
Δ^9 -THC	9.437e-1	30.778		
Δ^8 -THC	N/A	N/A		
THC-COOH	2.369e1	237.789		

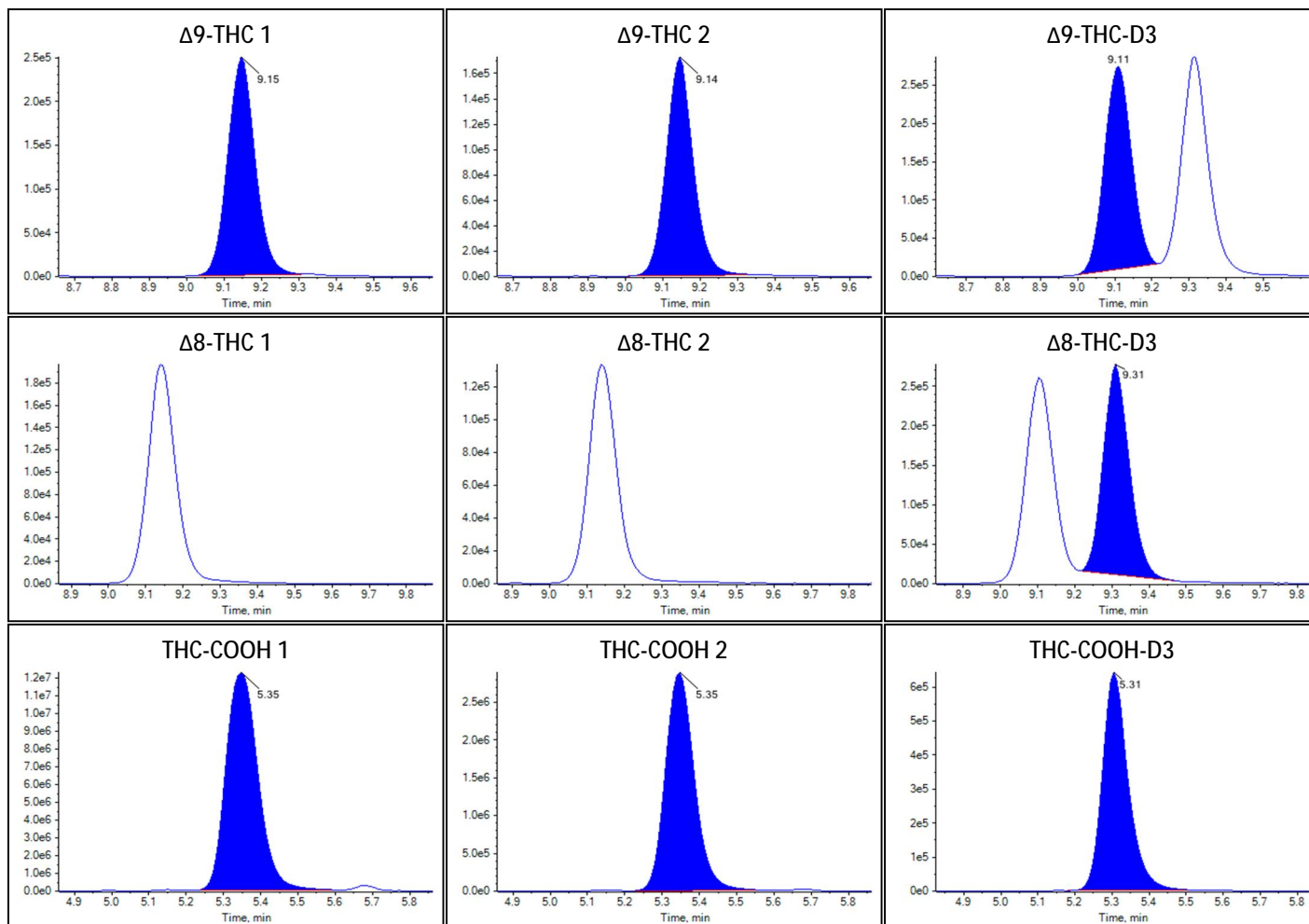
Identification Summary: Case 18

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 18



Peak Review: Case 18





Sample Summary

Sample Name	Case 19
Acquisition Date/Time	2022-09-22T22:03:41
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	29
Sample Comment	

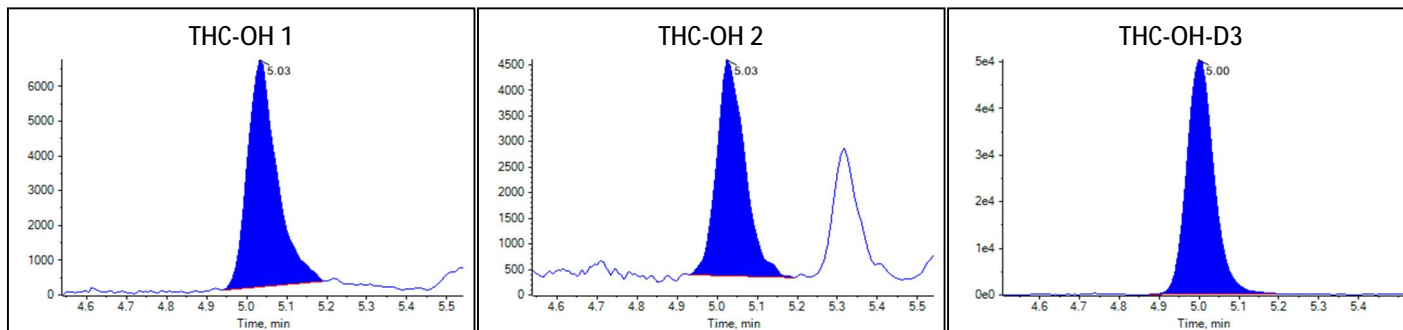
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.406e-1	1.200		
Δ 9-THC	5.137e-2	1.767		
Δ 8-THC	N/A	N/A		
THC-COOH	1.288e0	12.859		

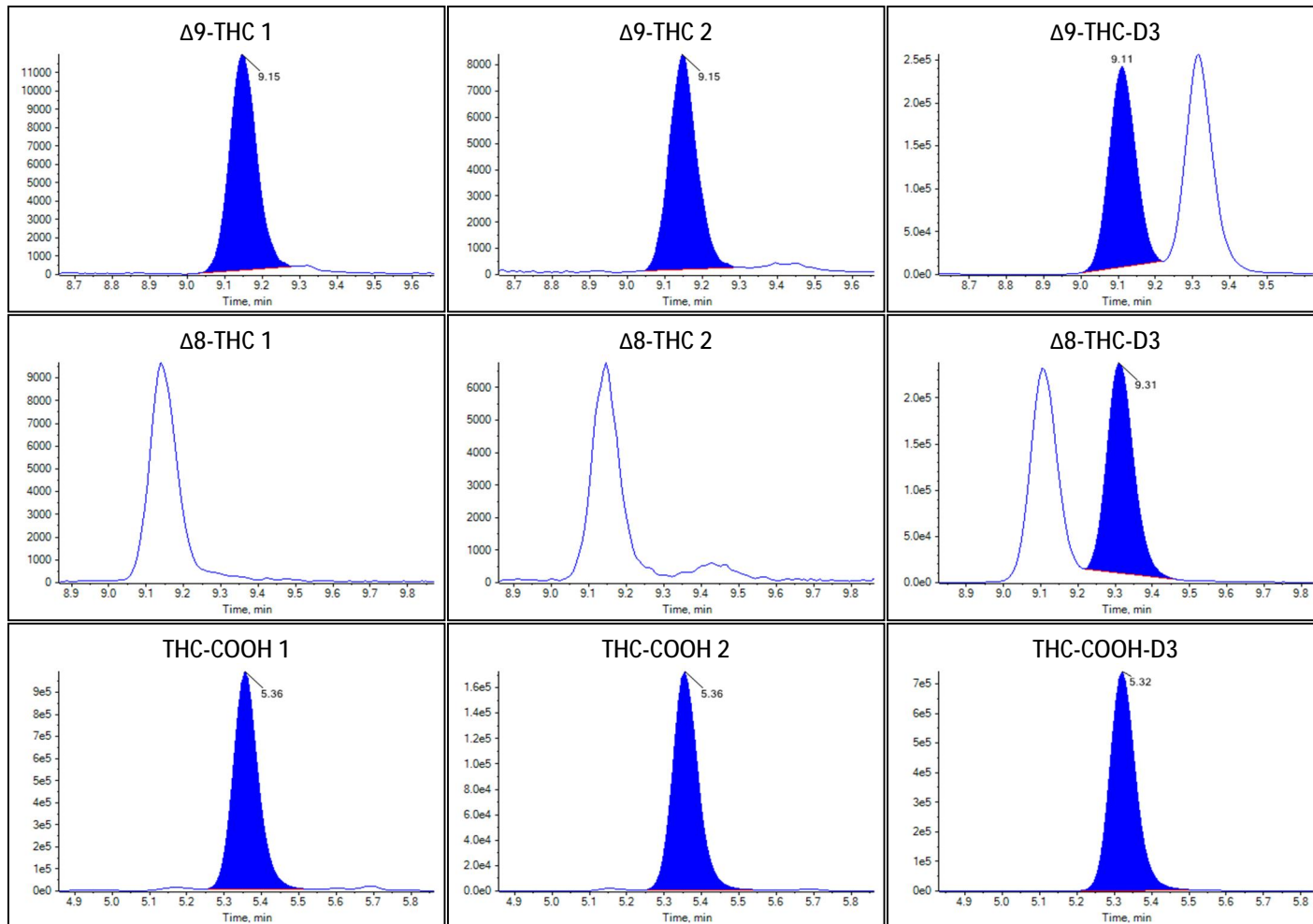
Identification Summary: Case 19

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	
Δ 8-THC 1	315.1 / 193.1	N/A	
Δ 8-THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 19



Peak Review: Case 19





Sample Summary

Sample Name	Low
Acquisition Date/Time	2022-09-22T22:17:47
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Quality Control
File Name	20220922 Simulated Batch.wiff
Position	9
Sample Comment	

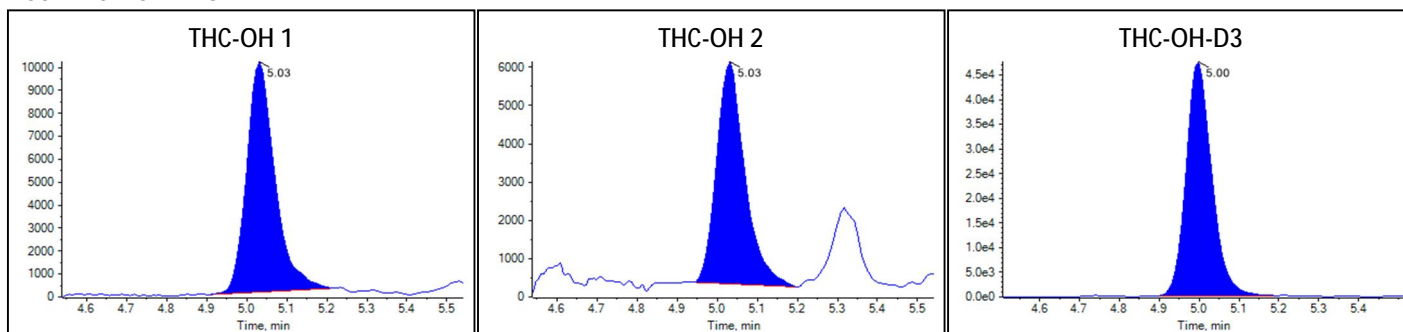
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.322e-1	1.993		
Δ 9-THC	9.239e-2	3.067		
Δ 8-THC	6.374e-2	2.764		
THC-COOH	7.860e-1	7.820		

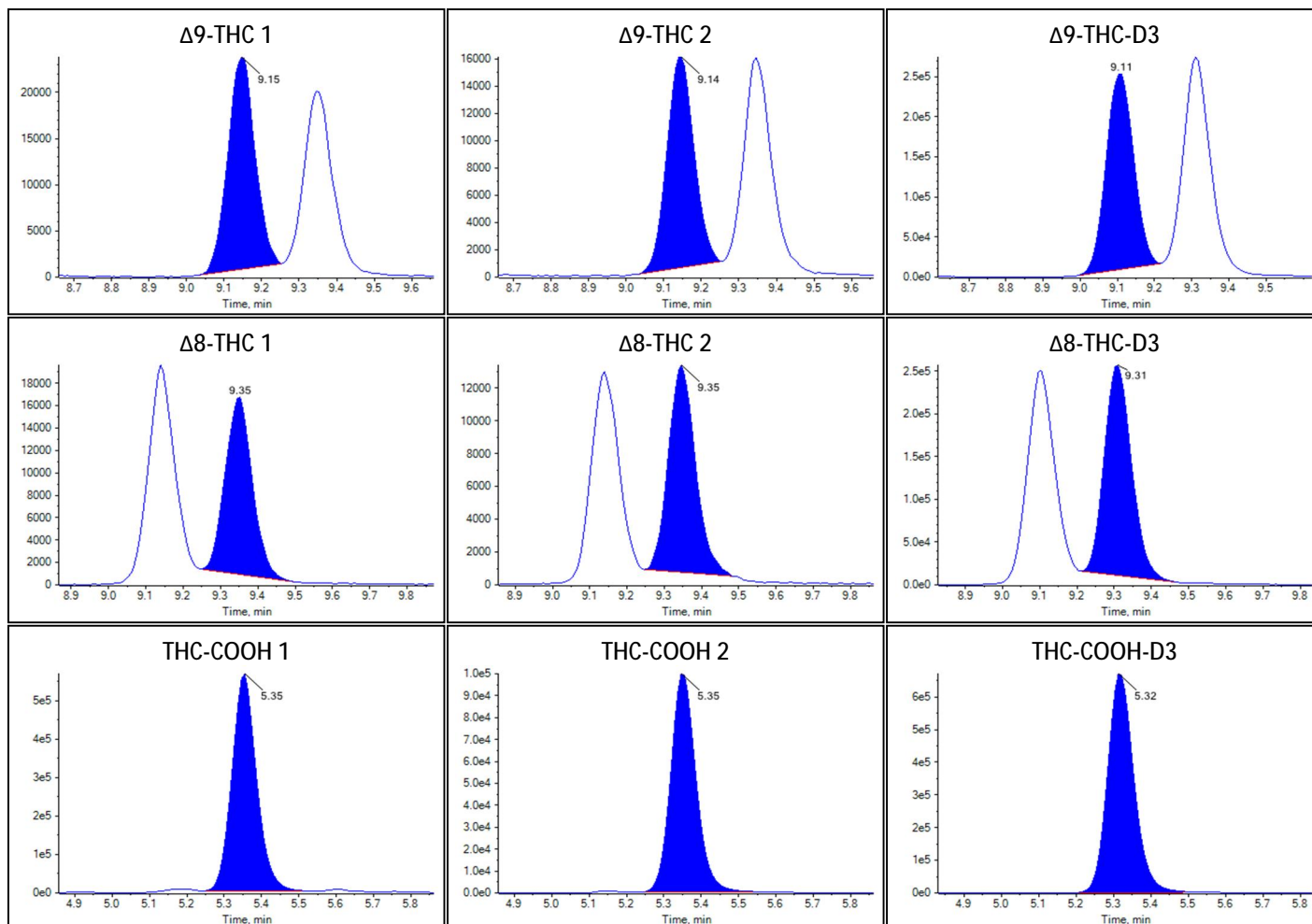
Identification Summary: Low

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Low



Peak Review: Low





Sample Summary

Sample Name	Case 20
Acquisition Date/Time	2022-09-22T22:31:52
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	30
Sample Comment	

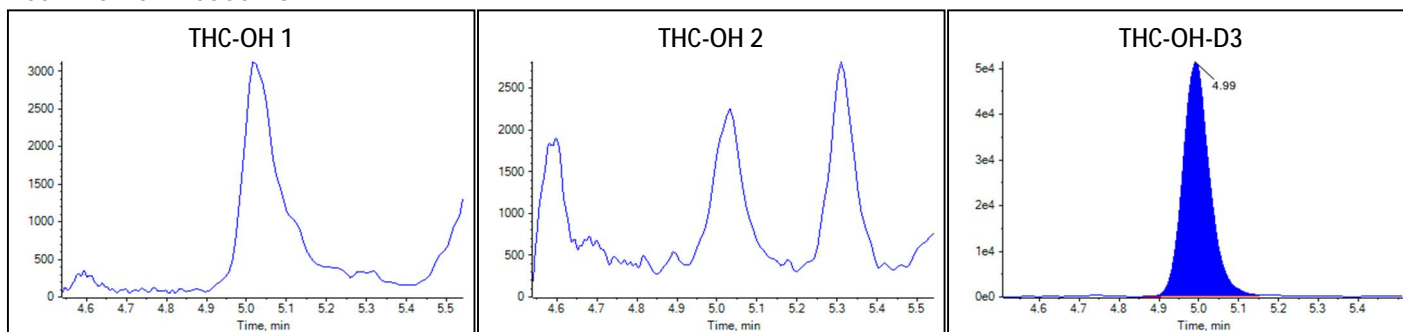
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	2.511e-2	0.937		
Δ^8 -THC	N/A	N/A		
THC-COOH	1.039e0	10.363		

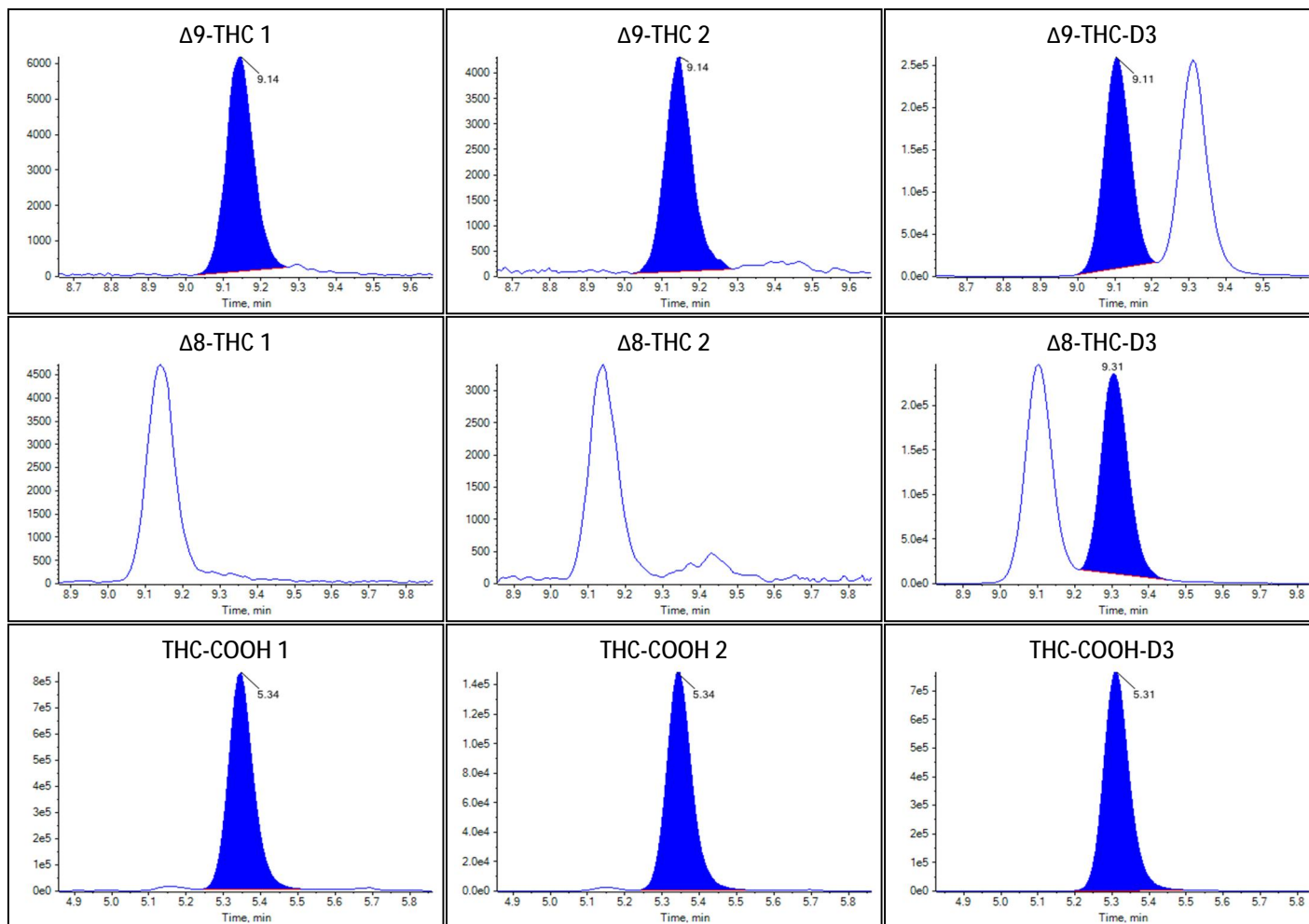
Identification Summary: Case 20

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 20



Peak Review: Case 20





Sample Summary

Sample Name	Case 21
Acquisition Date/Time	2022-09-22T22:45:57
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	31
Sample Comment	

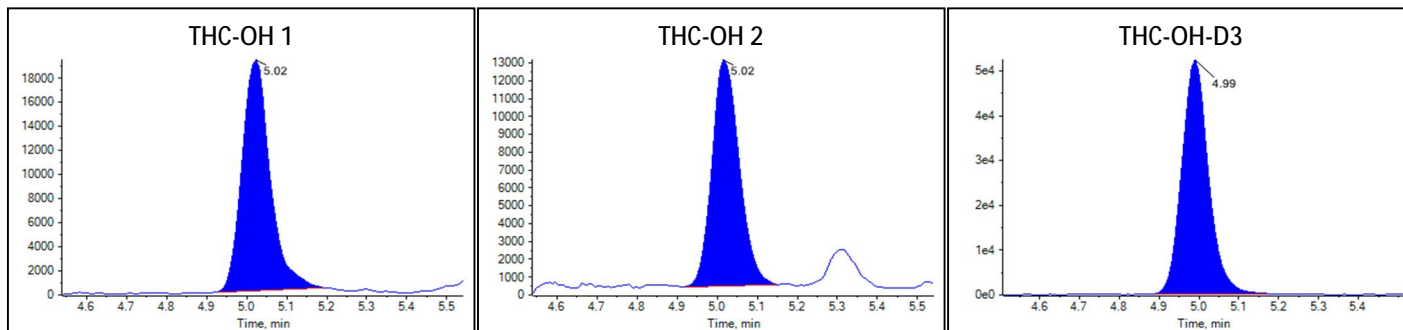
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	3.878e-1	3.341		
Δ 9-THC	1.088e-1	3.588		
Δ 8-THC	N/A	N/A		
THC-COOH	3.019e0	30.239		

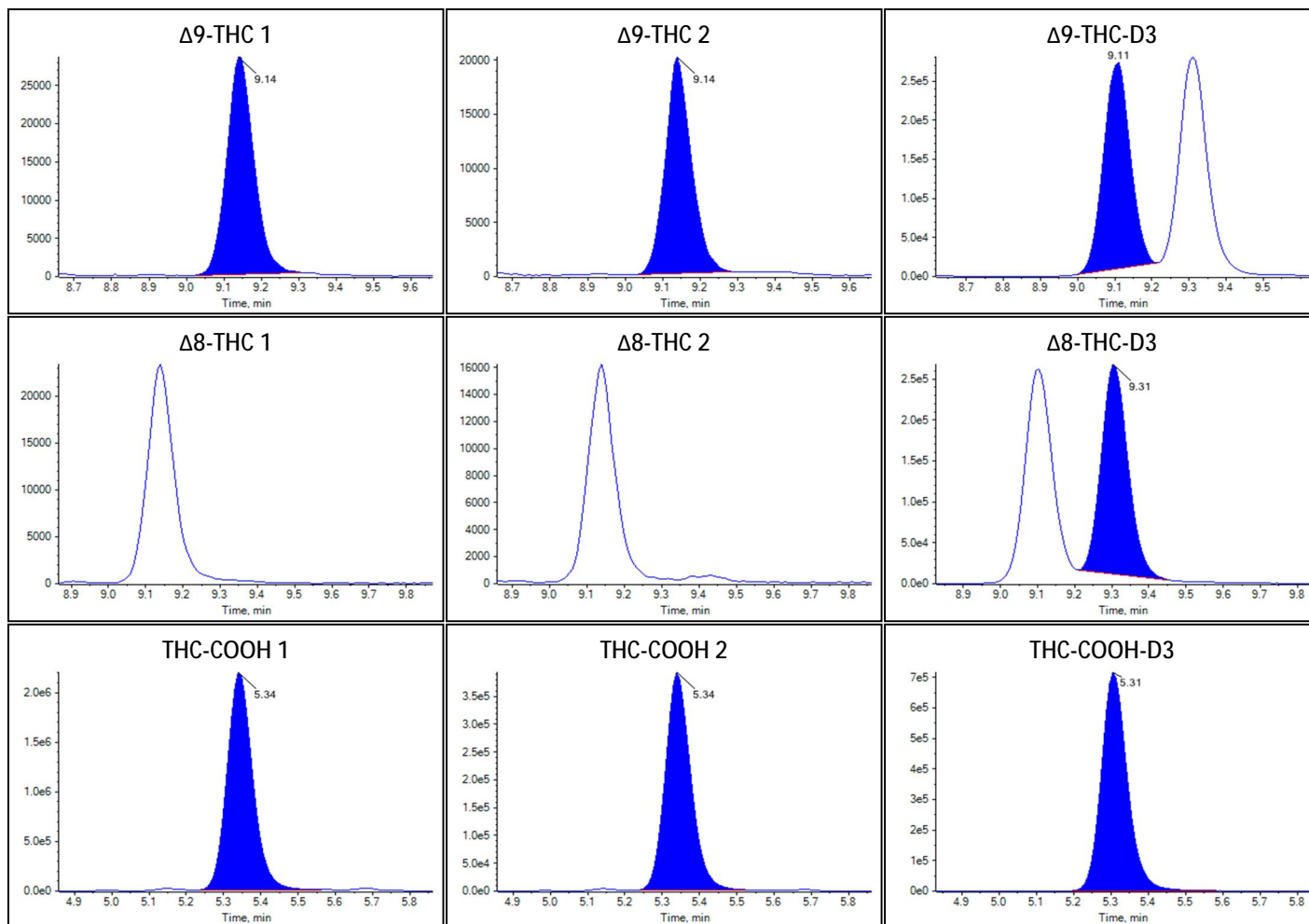
Identification Summary: Case 21

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	
Δ 8-THC 1	315.1 / 193.1	N/A	
Δ 8-THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 21



Peak Review: Case 21





Sample Summary

Sample Name	Case 22
Acquisition Date/Time	2022-09-22T23:00:06
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	32
Sample Comment	

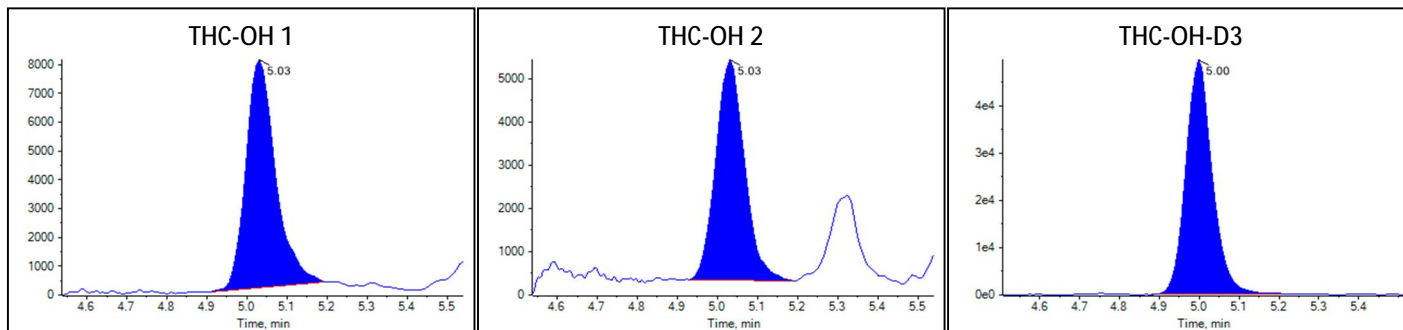
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.787e-1	1.529		
Δ 9-THC	1.180e-1	3.882		
Δ 8-THC	N/A	N/A		
THC-COOH	5.371e0	53.842		

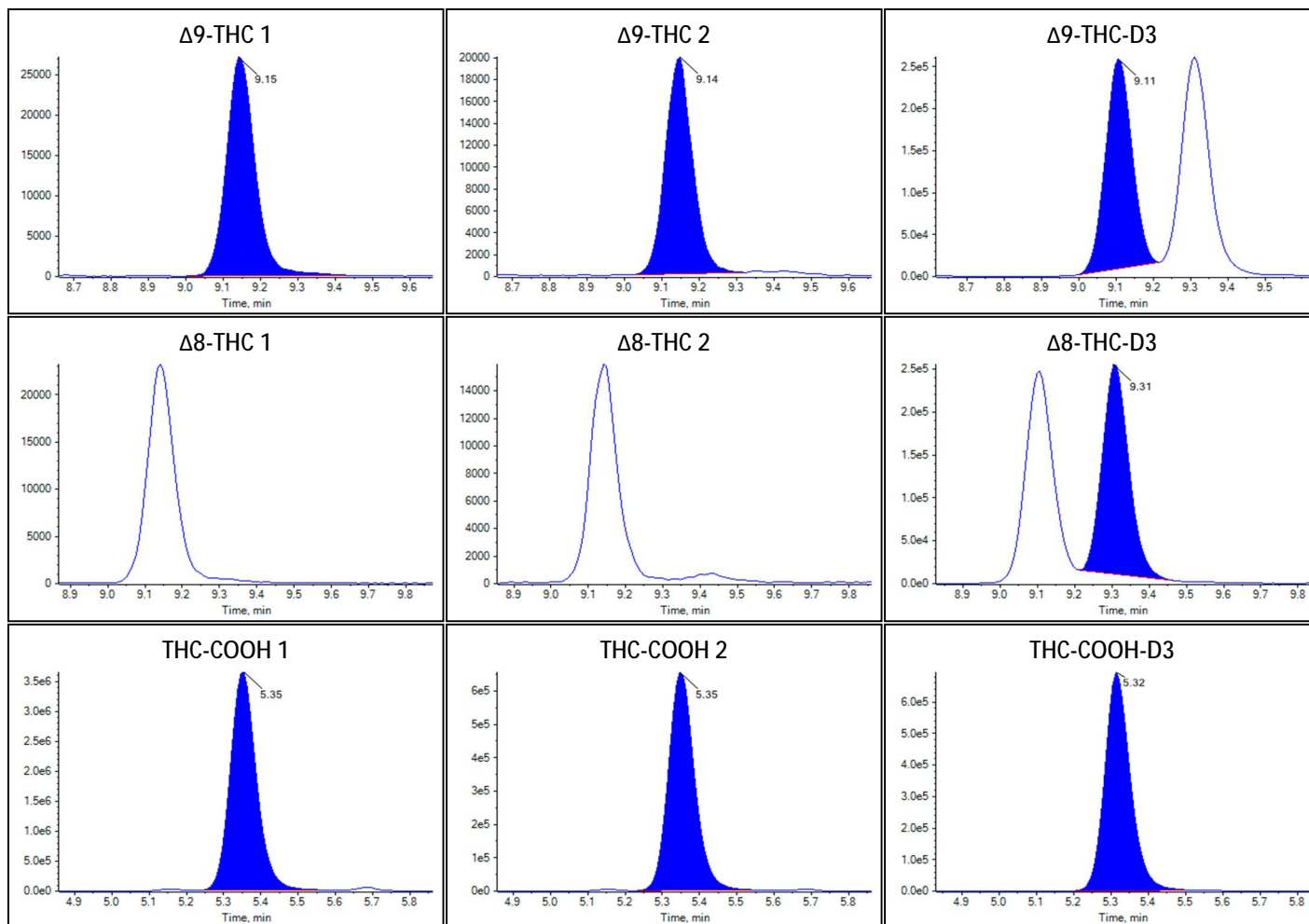
Identification Summary: Case 22

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	
Δ 8-THC 1	315.1 / 193.1	N/A	
Δ 8-THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 22



Peak Review: Case 22





Sample Summary

Sample Name	Case 23
Acquisition Date/Time	2022-09-22T23:14:11
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	33
Sample Comment	

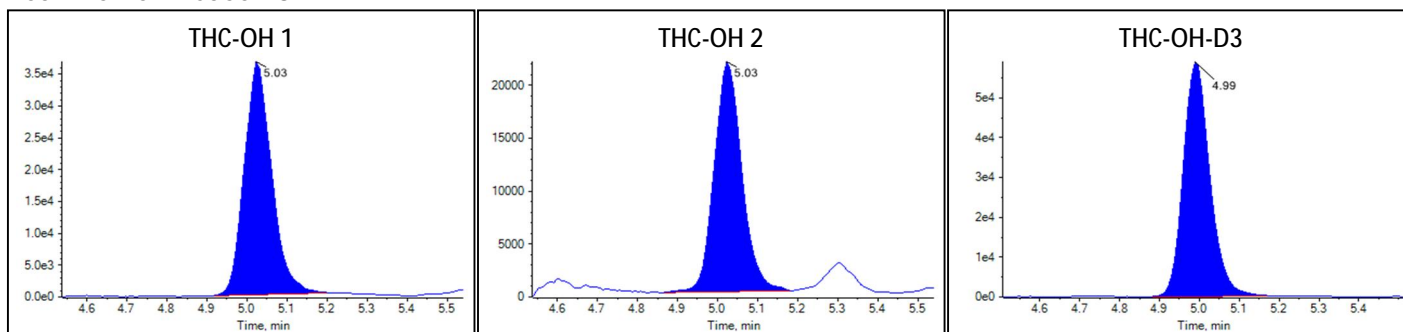
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	6.366e-1	5.496		
Δ^9 -THC	8.056e-1	26.184		
Δ^8 -THC	N/A	N/A		
THC-COOH	1.060e1	106.382		

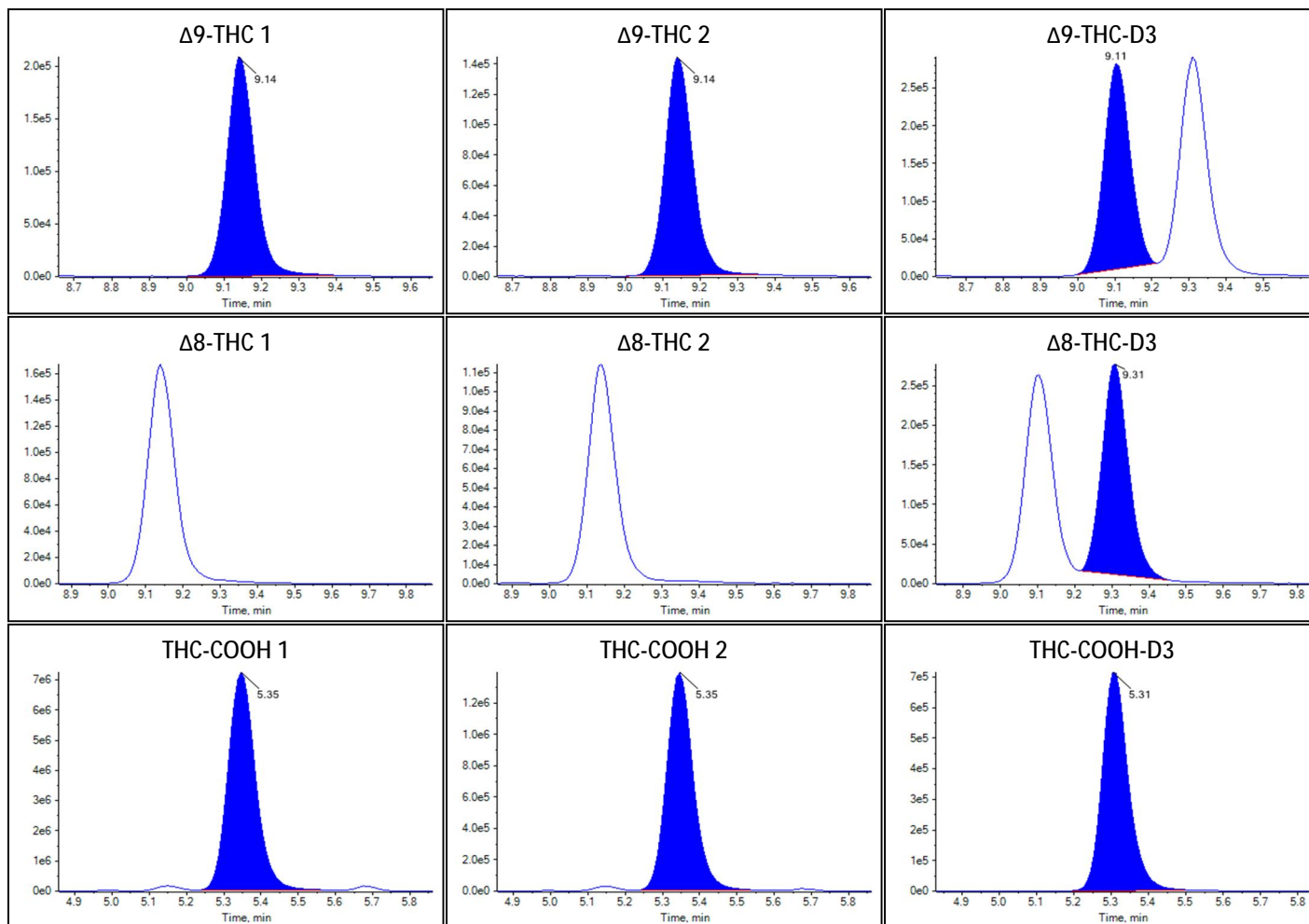
Identification Summary: Case 23

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 23



Peak Review: Case 23





Sample Summary

Sample Name	Case 24
Acquisition Date/Time	2022-09-22T23:28:20
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	34
Sample Comment	

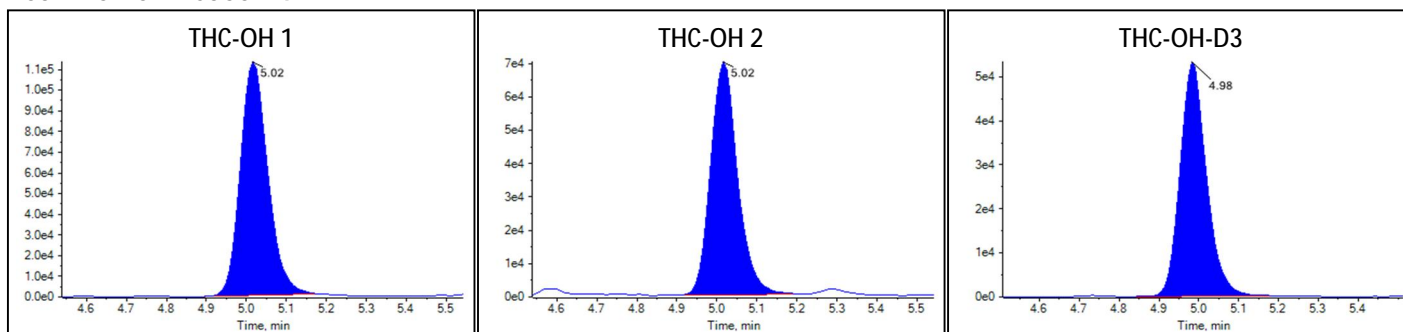
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.204e0	19.075		
Δ^9 -THC	4.535e-1	14.647		
Δ^8 -THC	N/A	N/A		
THC-COOH	3.576e1	358.940		

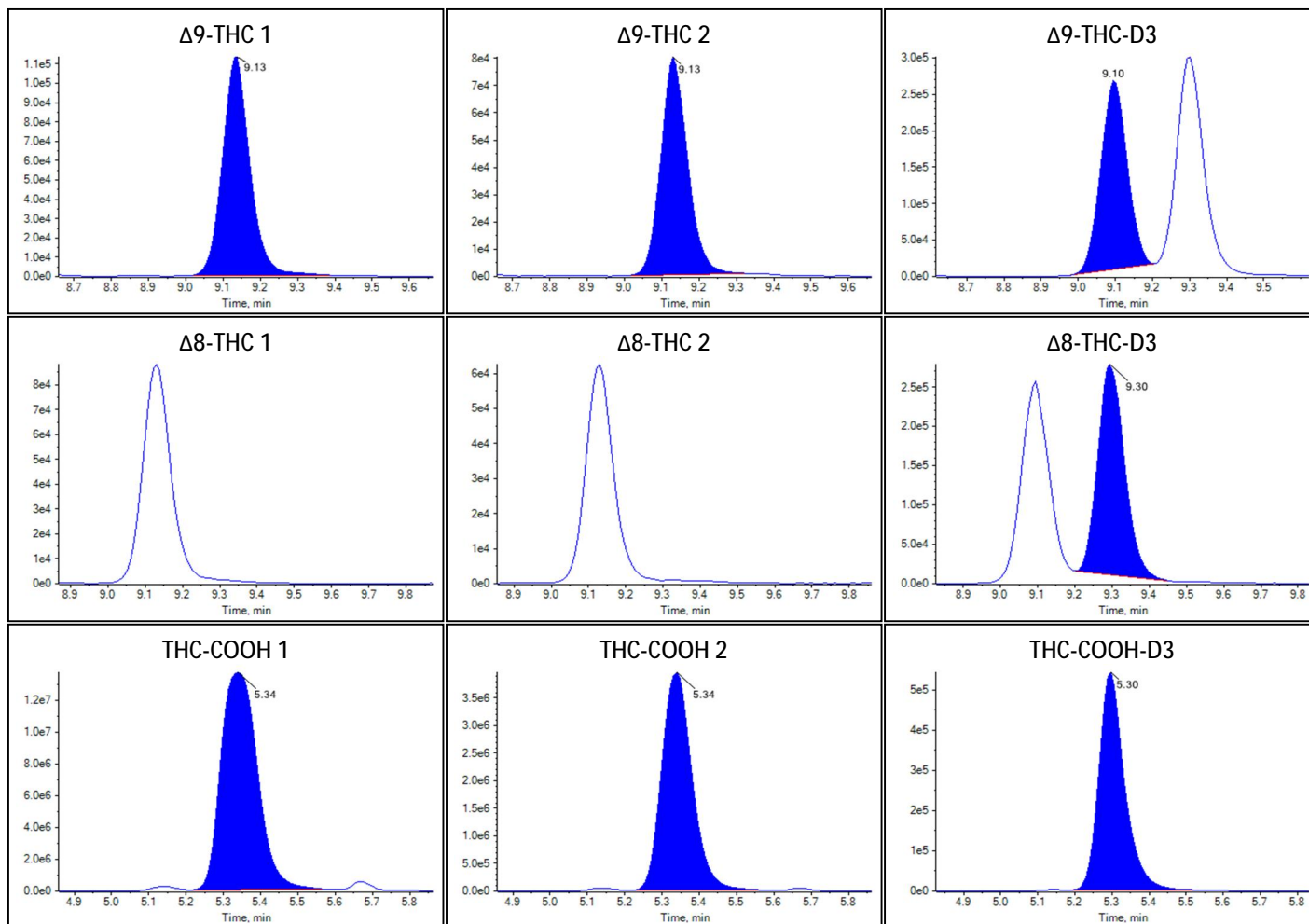
Identification Summary: Case 24

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 24



Peak Review: Case 24





Sample Summary

Sample Name	Case 25
Acquisition Date/Time	2022-09-22T23:42:25
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	35
Sample Comment	

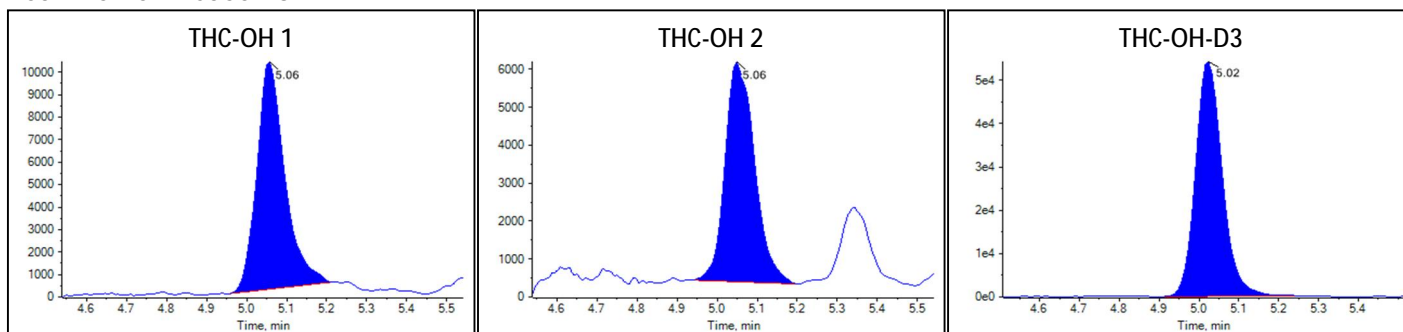
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.935e-1	1.657		
Δ 9-THC	5.717e-2	1.951		
Δ 8-THC	N/A	N/A		
THC-COOH	1.503e0	15.018		

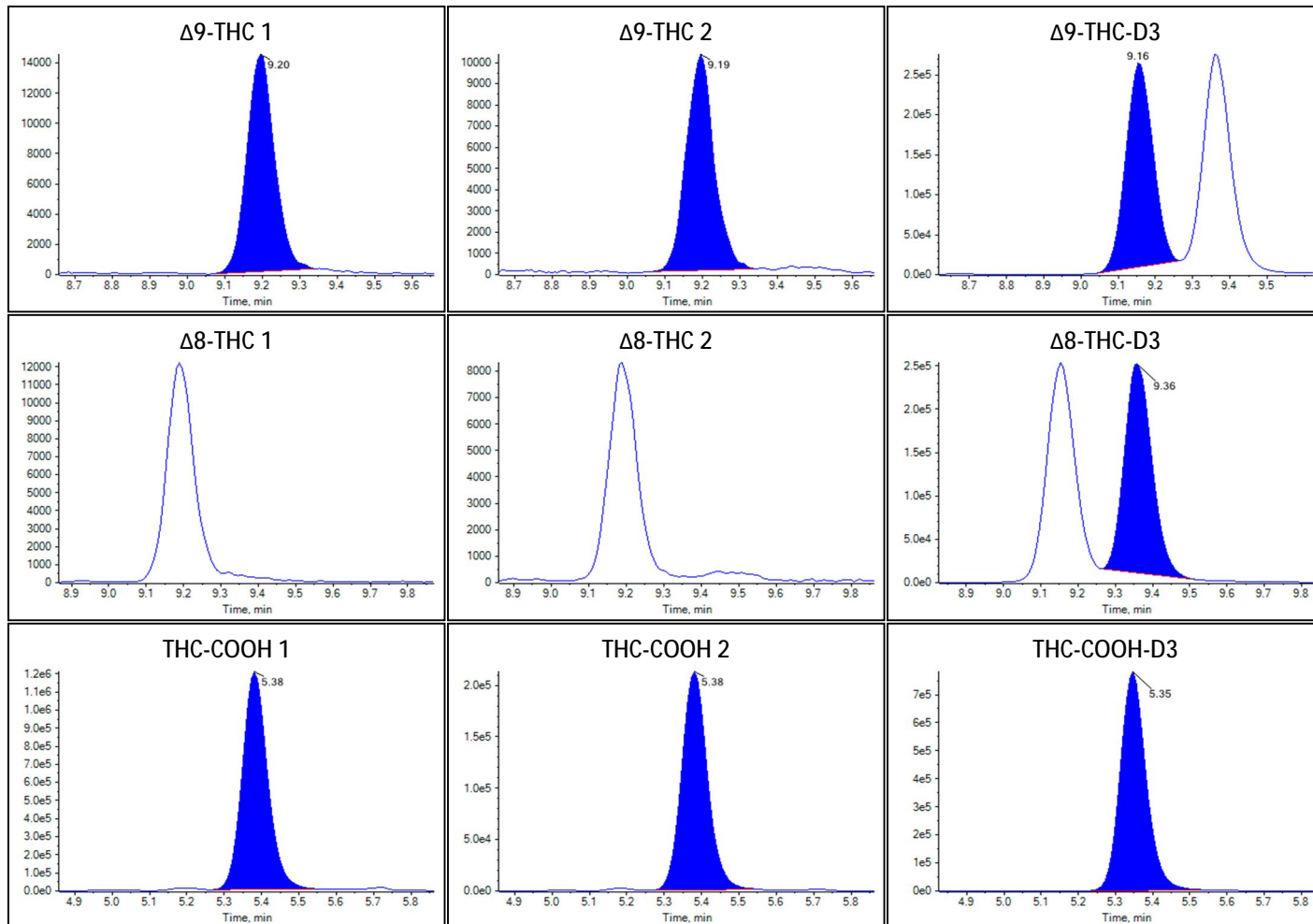
Identification Summary: Case 25

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	
Δ 8-THC 1	315.1 / 193.1	N/A	
Δ 8-THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 25



Peak Review: Case 25





Sample Summary

Sample Name	Case 26
Acquisition Date/Time	2022-09-22T23:56:30
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	36
Sample Comment	

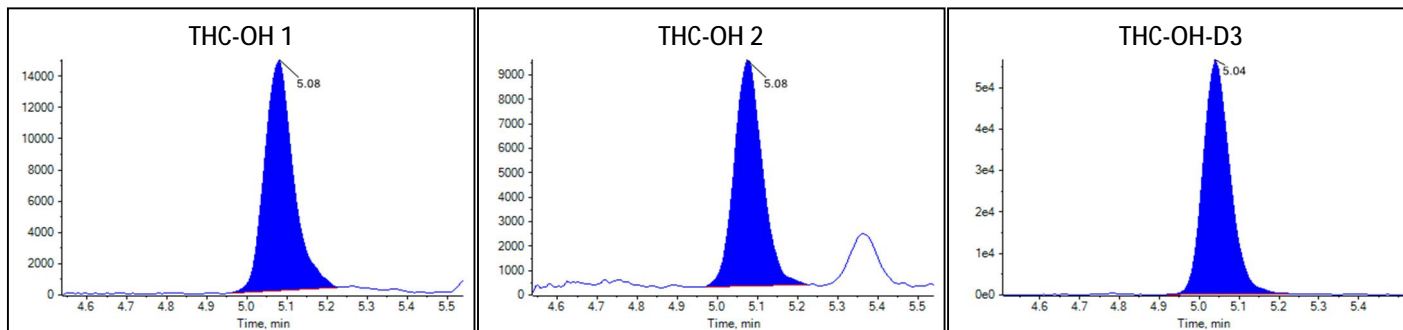
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.815e-1	2.420		
Δ^9 -THC	1.870e-1	6.078		
Δ^8 -THC	N/A	N/A		
THC-COOH	2.398e0	24.005		

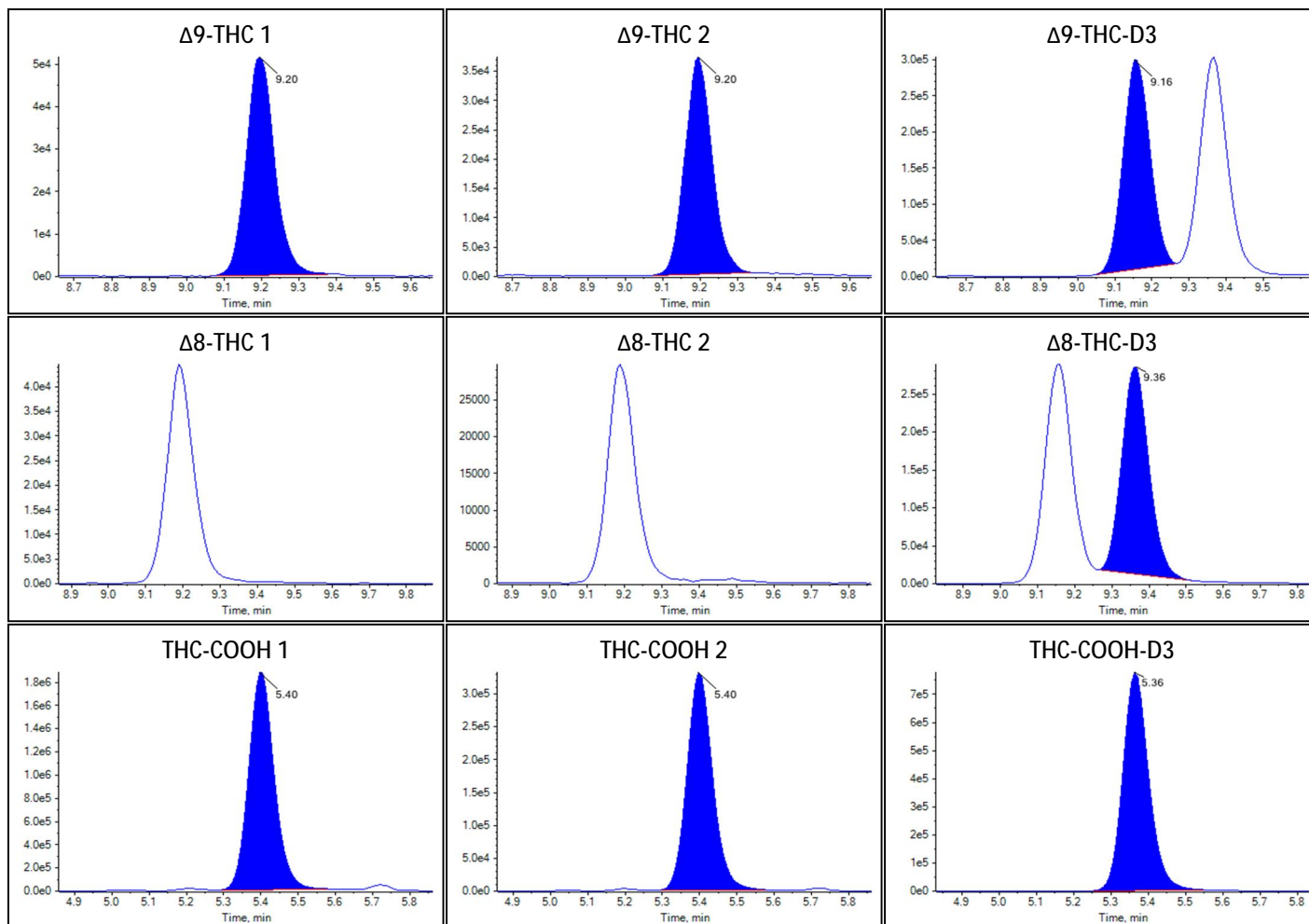
Identification Summary: Case 26

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 26



Peak Review: Case 26





Sample Summary

Sample Name	Case 27
Acquisition Date/Time	2022-09-23T00:10:36
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	37
Sample Comment	

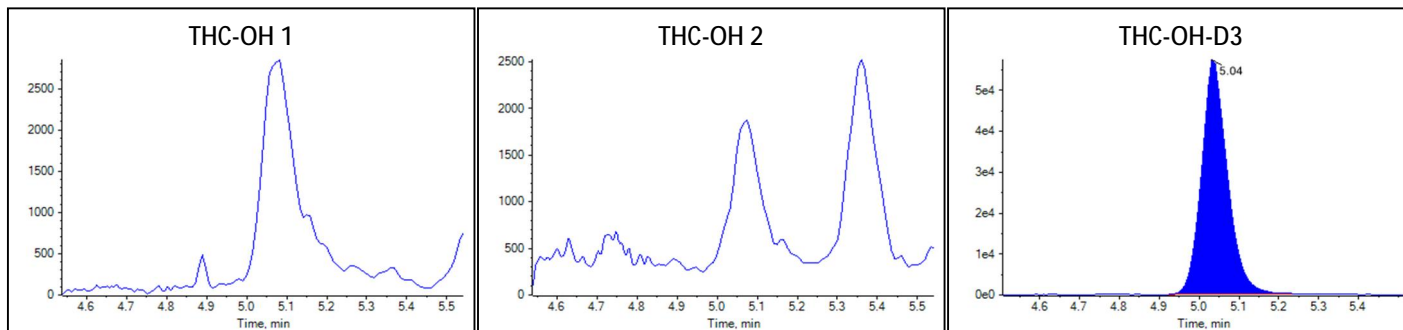
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	1.793e-2	0.710		
Δ^8 -THC	N/A	N/A		
THC-COOH	6.493e-1	6.448		

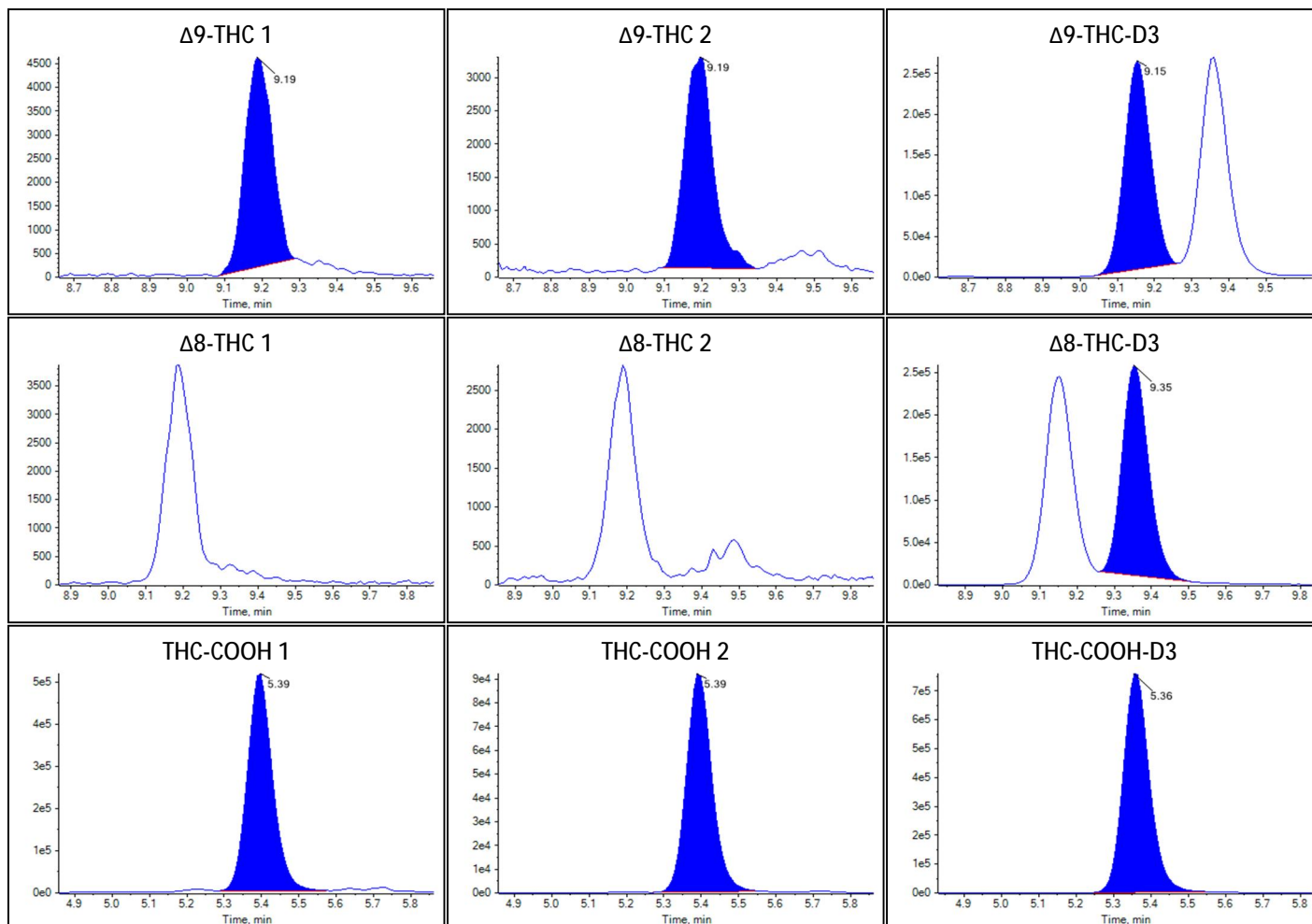
Identification Summary: Case 27

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 27



Peak Review: Case 27





Sample Summary

Sample Name	Case 28
Acquisition Date/Time	2022-09-23T00:24:44
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	38
Sample Comment	

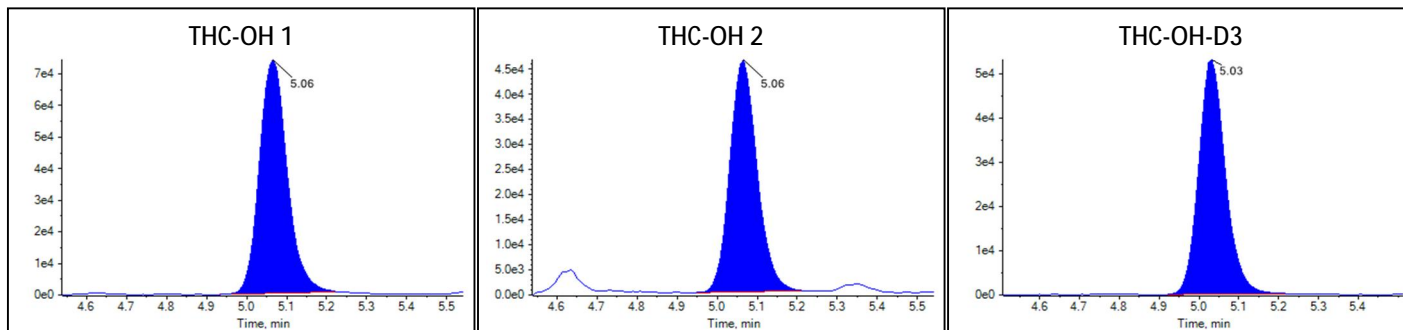
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.448e0	12.523		
Δ 9-THC	4.331e-1	13.985		
Δ 8-THC	N/A	N/A		
THC-COOH	2.410e1	241.821		

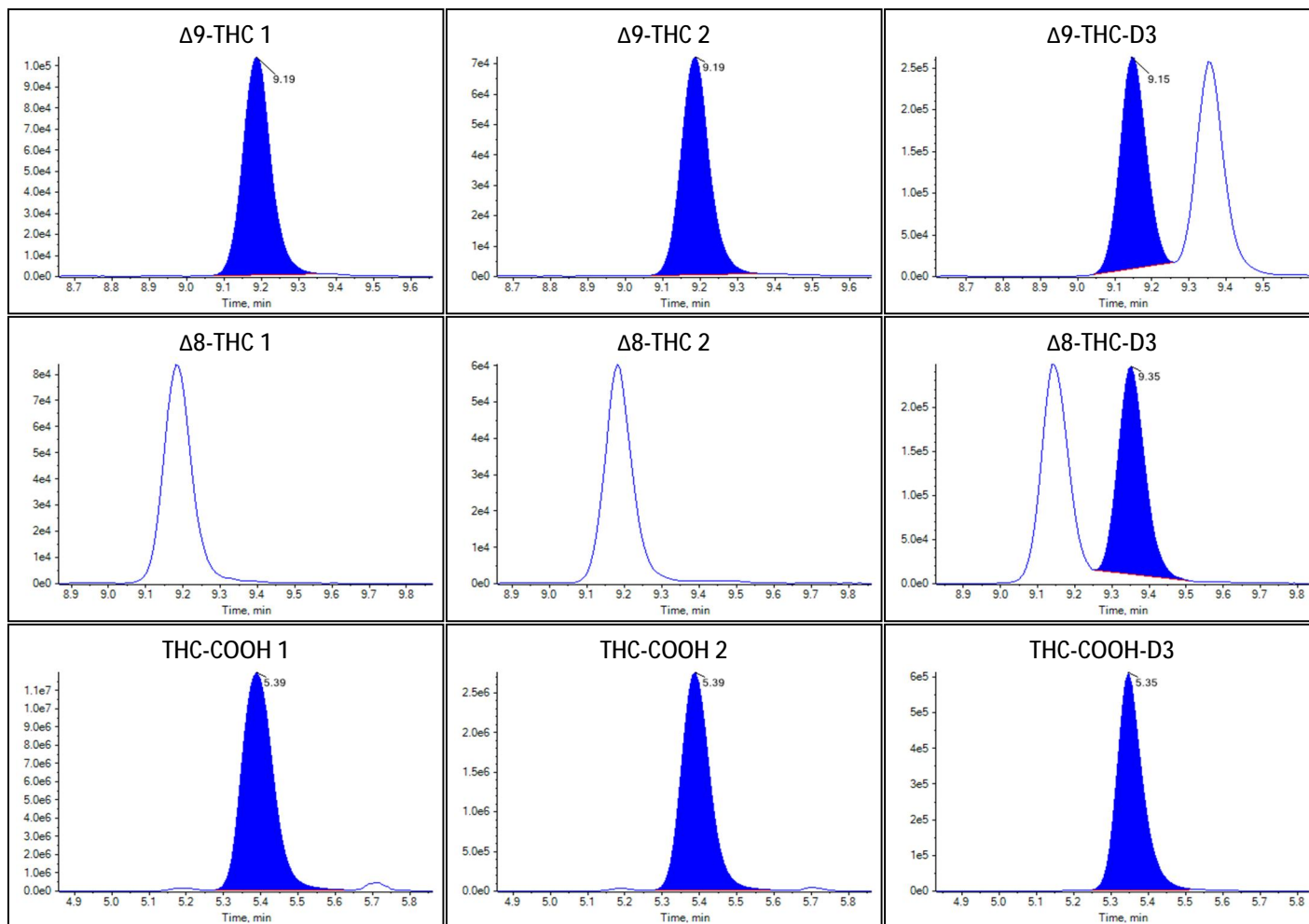
Identification Summary: Case 28

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	
Δ 8-THC 1	315.1 / 193.1	N/A	
Δ 8-THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 28



Peak Review: Case 28





Sample Summary

Sample Name	Case 29
Acquisition Date/Time	2022-09-23T00:38:49
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	39
Sample Comment	

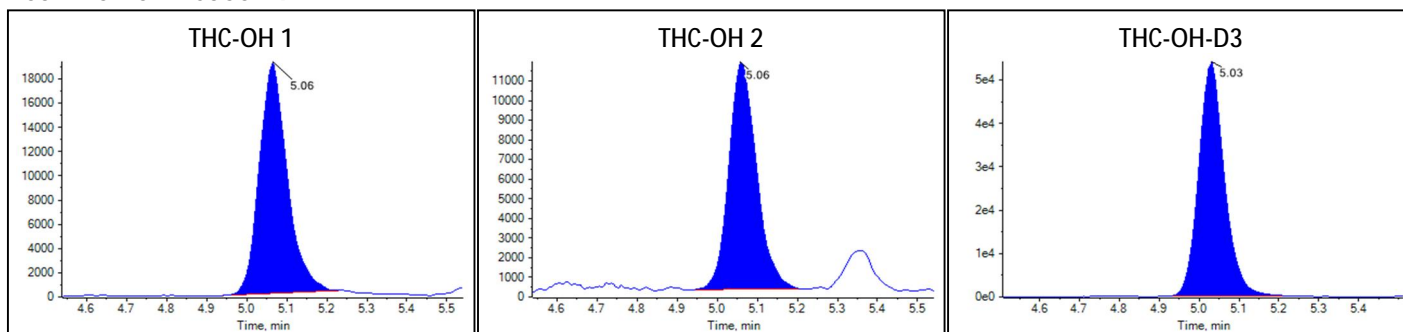
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	3.832e-1	3.301		
Δ 9-THC	2.539e-1	8.215		
Δ 8-THC	N/A	N/A		
THC-COOH	4.868e0	48.794		

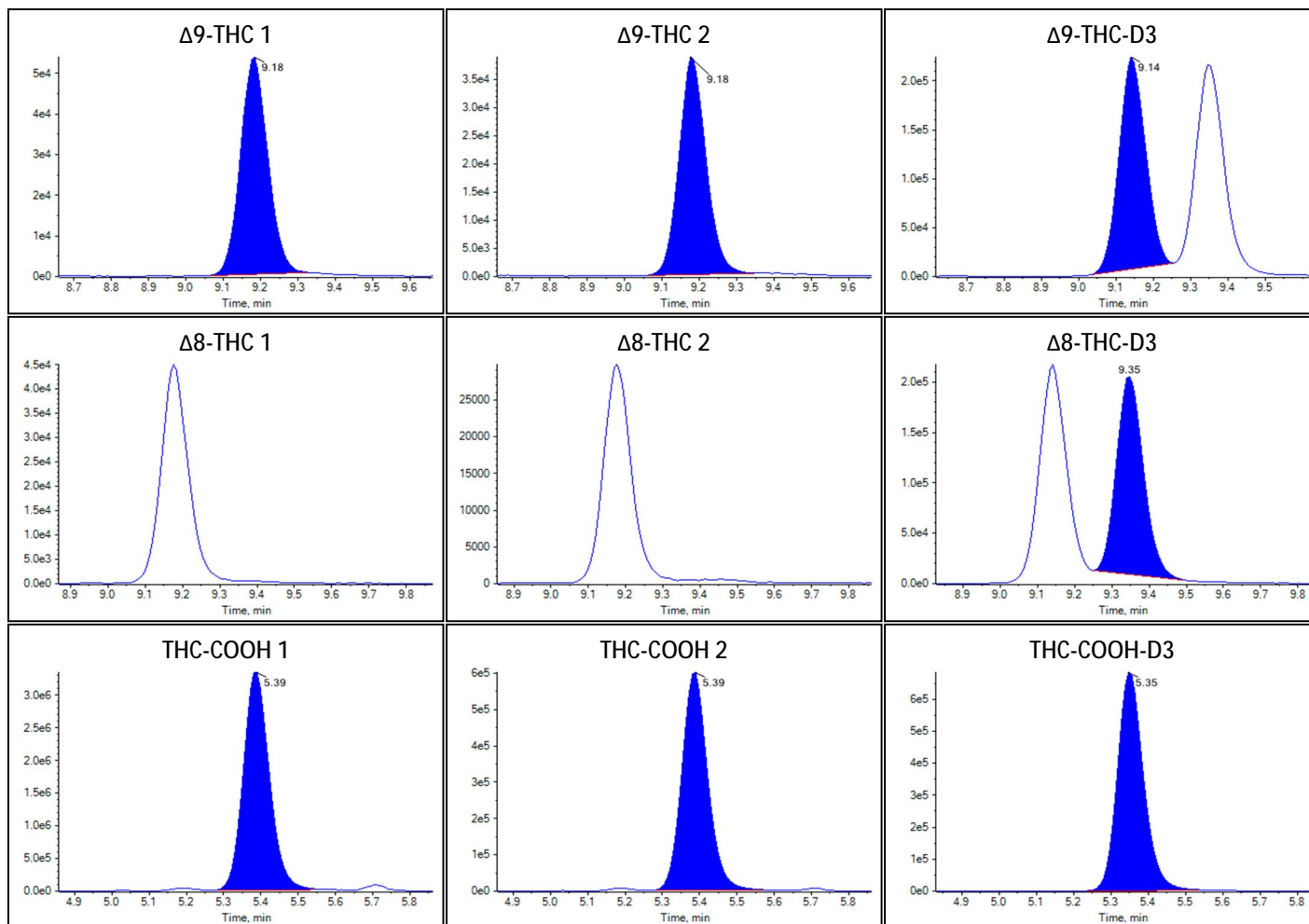
Identification Summary: Case 29

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	
Δ 8-THC 1	315.1 / 193.1	N/A	
Δ 8-THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 29



Peak Review: Case 29





Sample Summary

Sample Name	Case 30
Acquisition Date/Time	2022-09-23T00:52:55
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	40
Sample Comment	

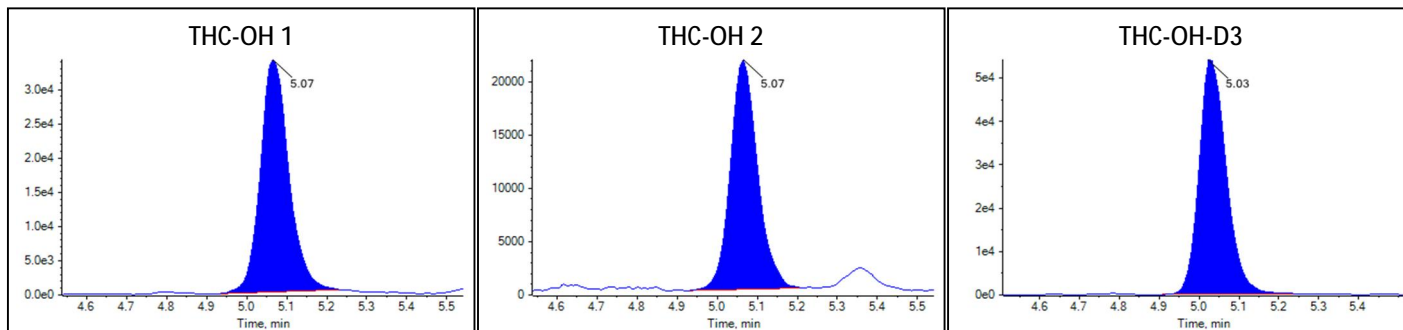
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	6.543e-1	5.649		
Δ^9 -THC	4.366e-1	14.098		
Δ^8 -THC	N/A	N/A		
THC-COOH	9.608e0	96.375		

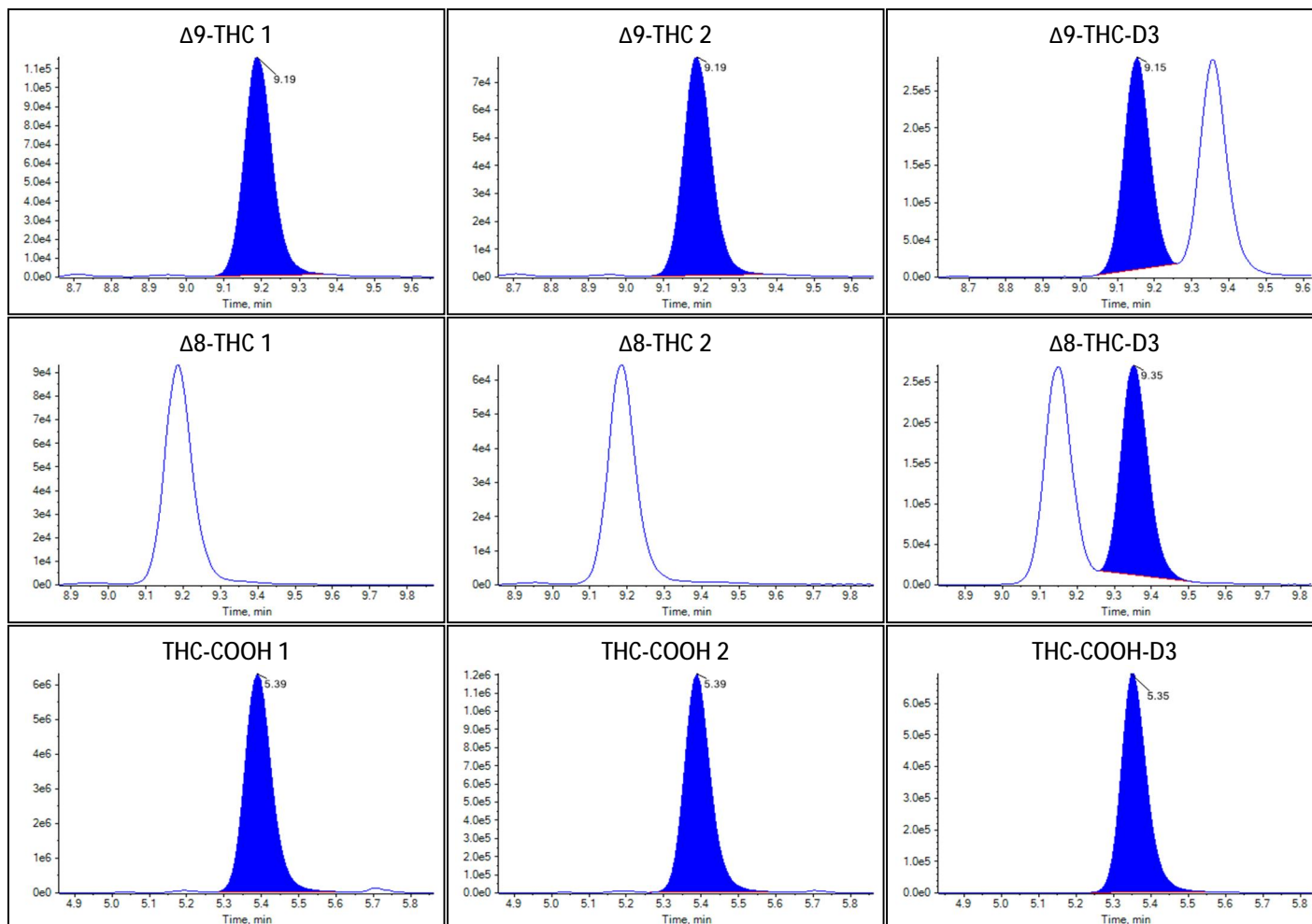
Identification Summary: Case 30

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 30



Peak Review: Case 30





Sample Summary

Sample Name	Case 31
Acquisition Date/Time	2022-09-23T01:07:00
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	41
Sample Comment	

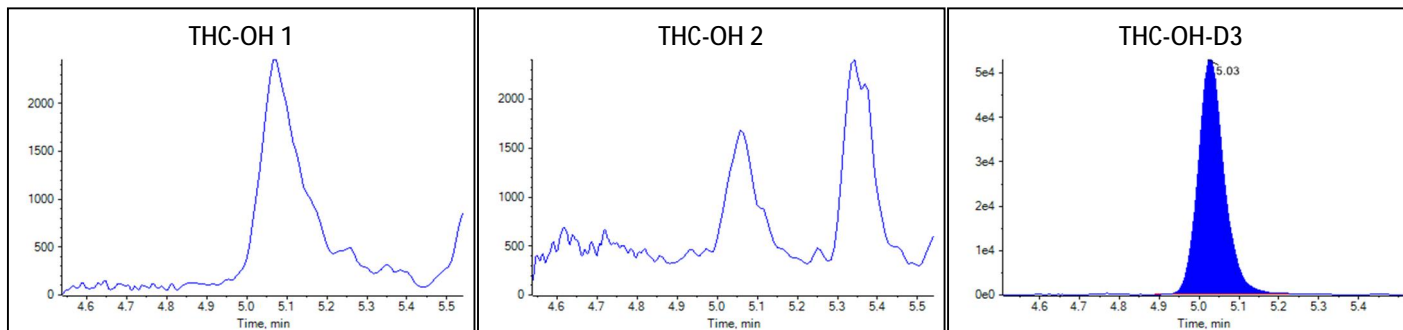
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	5.191e-2	1.785		
Δ^8 -THC	N/A	N/A		
THC-COOH	9.618e-1	9.585		

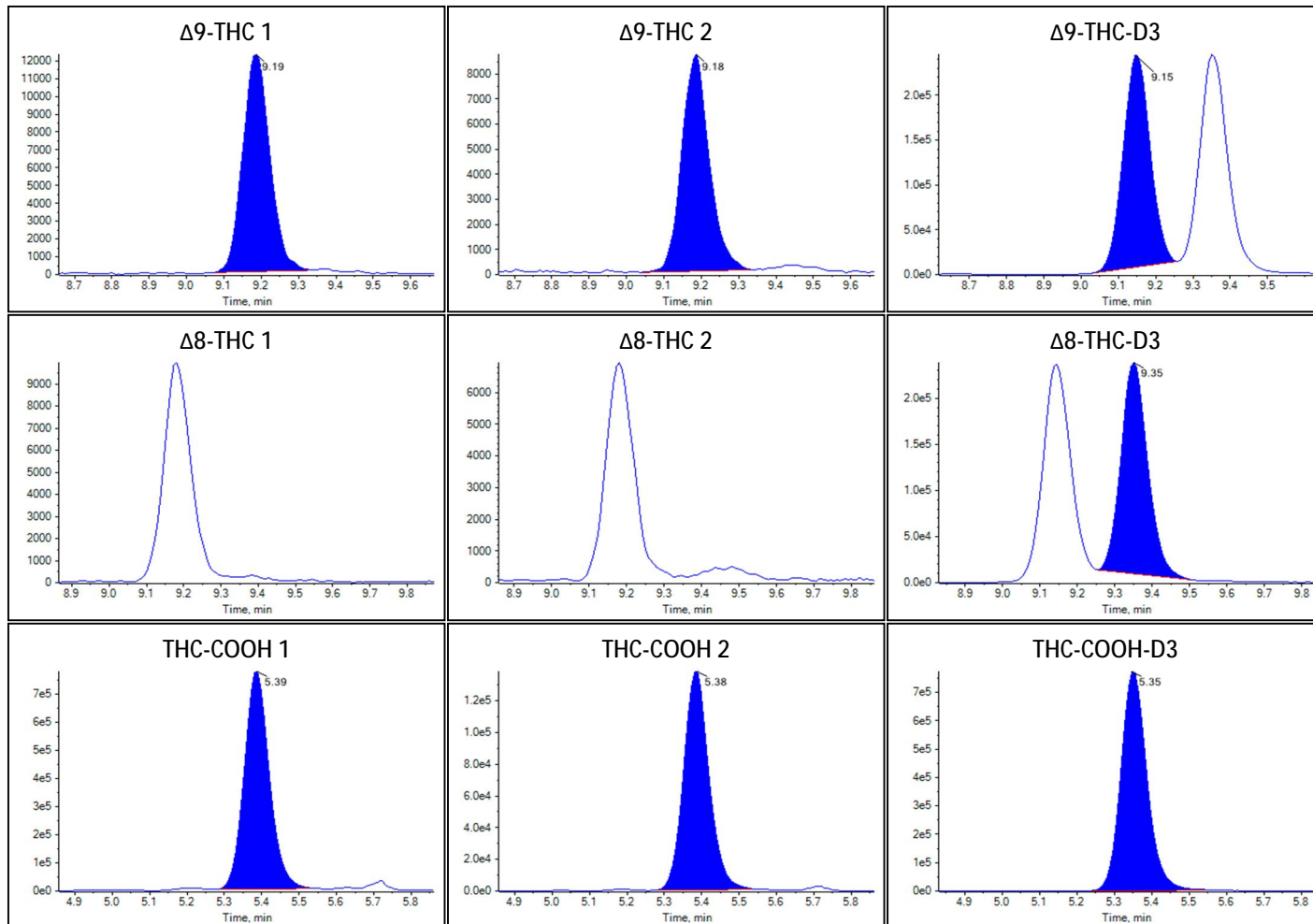
Identification Summary: Case 31

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 31



Peak Review: Case 31





Sample Summary

Sample Name	Case 32
Acquisition Date/Time	2022-09-23T01:21:06
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	42
Sample Comment	

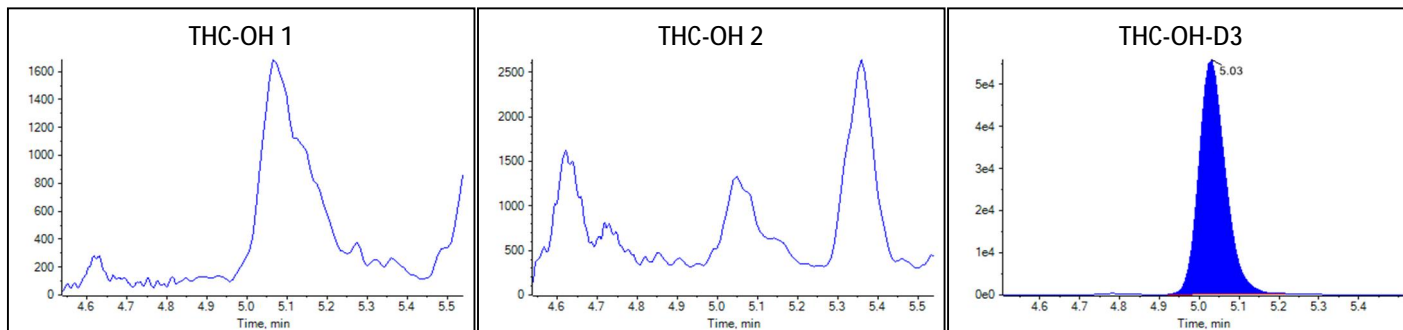
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	1.072e-2	0.482		
Δ^8 -THC	N/A	N/A		
THC-COOH	1.442e0	14.405		

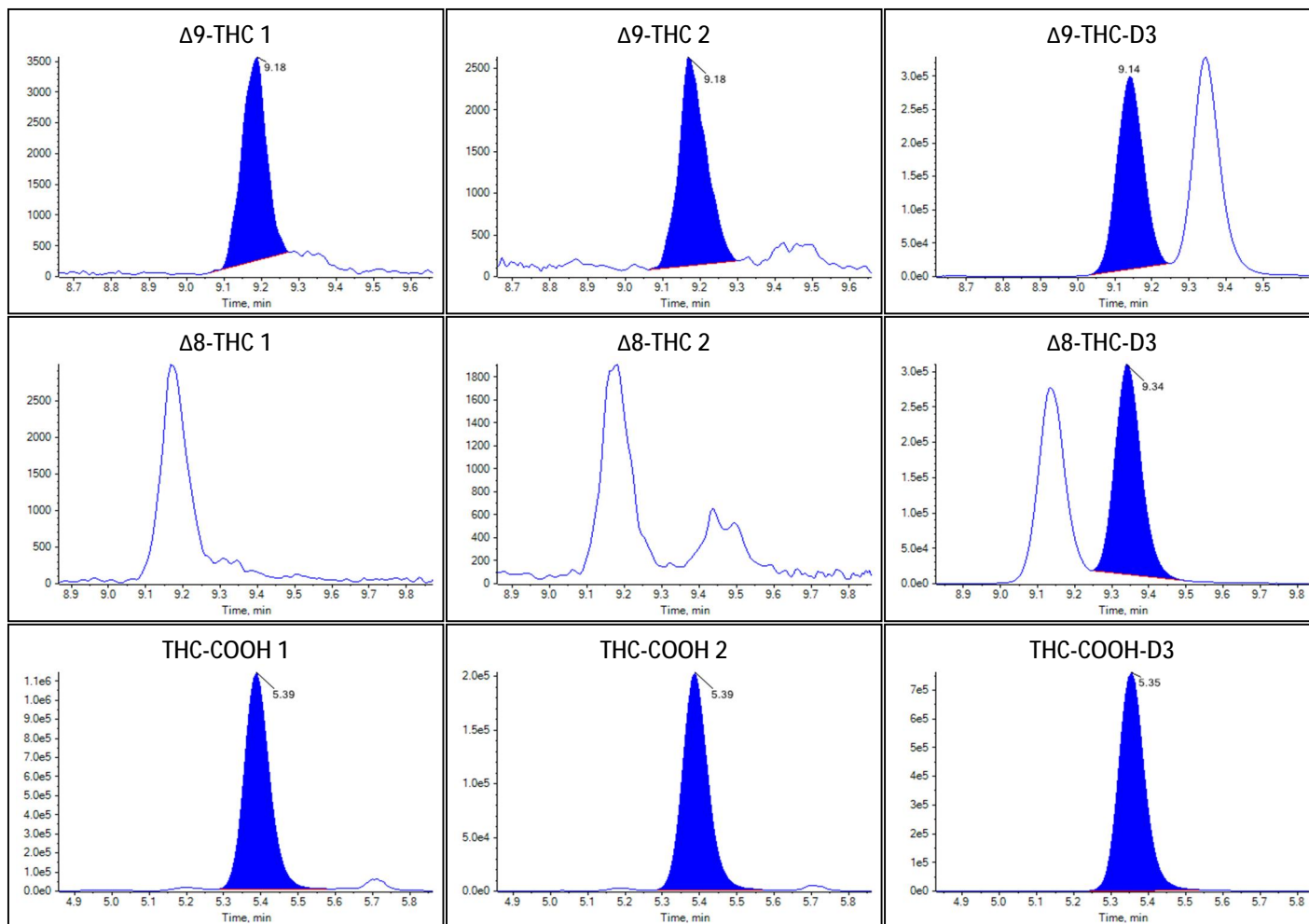
Identification Summary: Case 32

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 32



Peak Review: Case 32





Sample Summary

Sample Name	Case 33
Acquisition Date/Time	2022-09-23T01:35:14
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	43
Sample Comment	

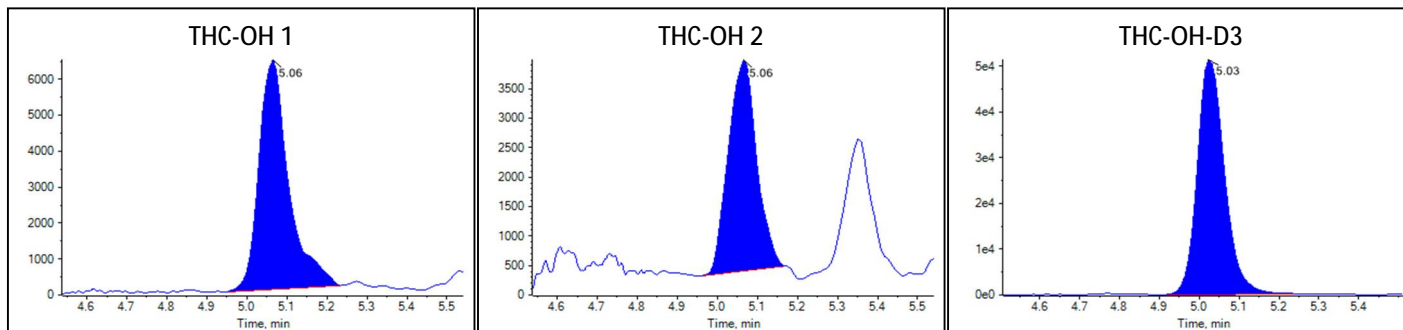
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.354e-1	1.154		
Δ 9-THC	6.205e-2	2.105		
Δ 8-THC	N/A	N/A		
THC-COOH	2.314e0	23.156		

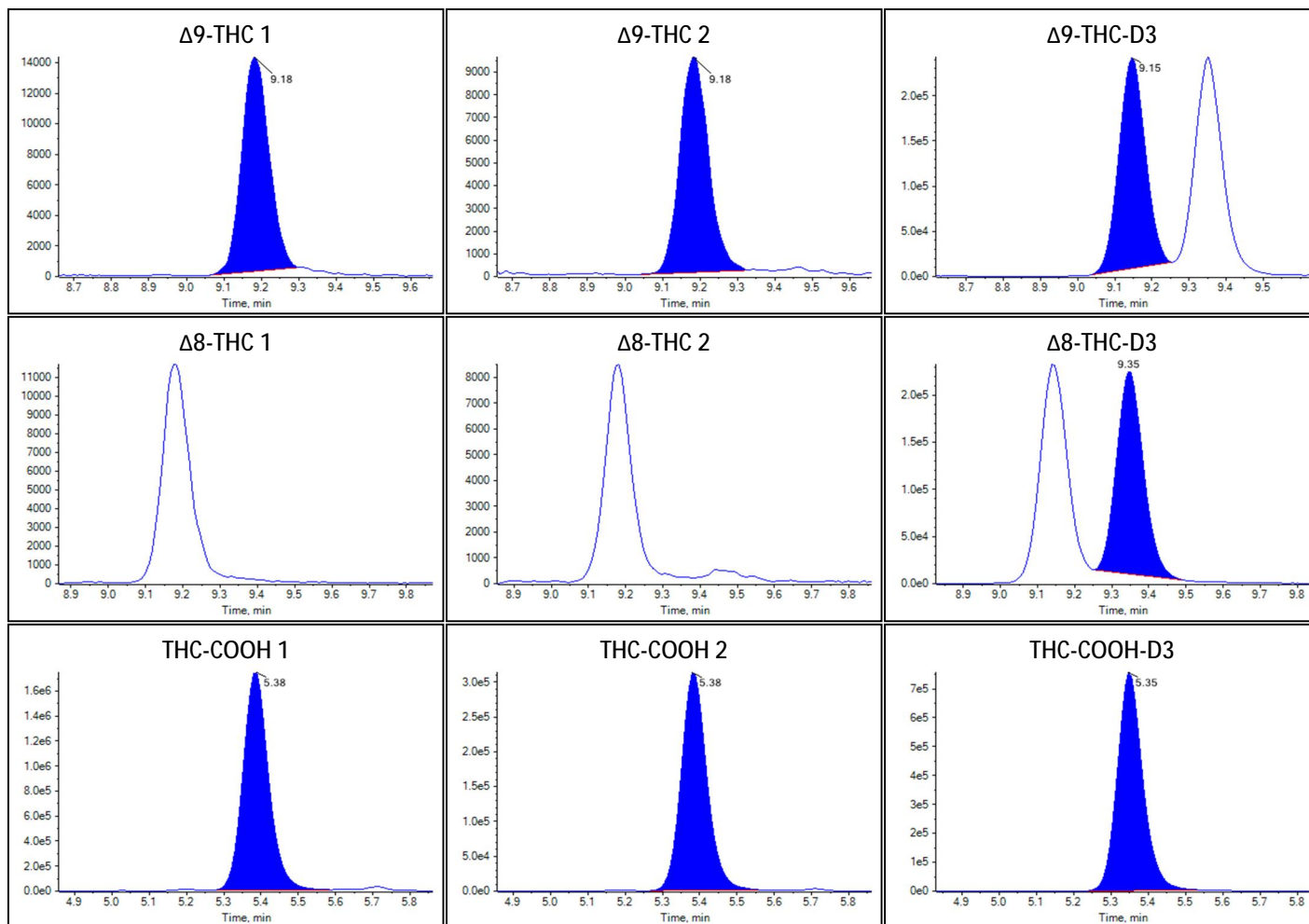
Identification Summary: Case 33

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	
Δ 8-THC 1	315.1 / 193.1	N/A	
Δ 8-THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 33



Peak Review: Case 33





Sample Summary

Sample Name	Case 34
Acquisition Date/Time	2022-09-23T01:49:20
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	44
Sample Comment	

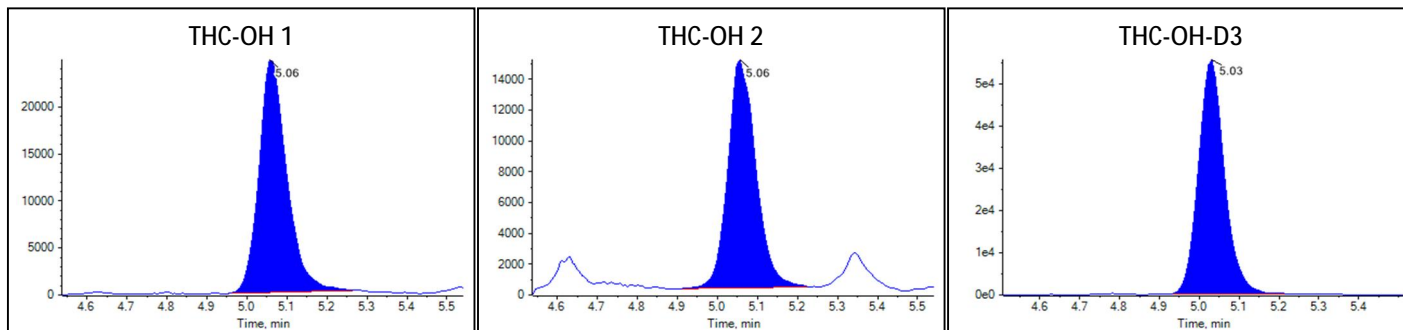
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	4.748e-1	4.094		
Δ^9 -THC	3.957e-1	12.776		
Δ^8 -THC	N/A	N/A		
THC-COOH	1.355e1	135.964		

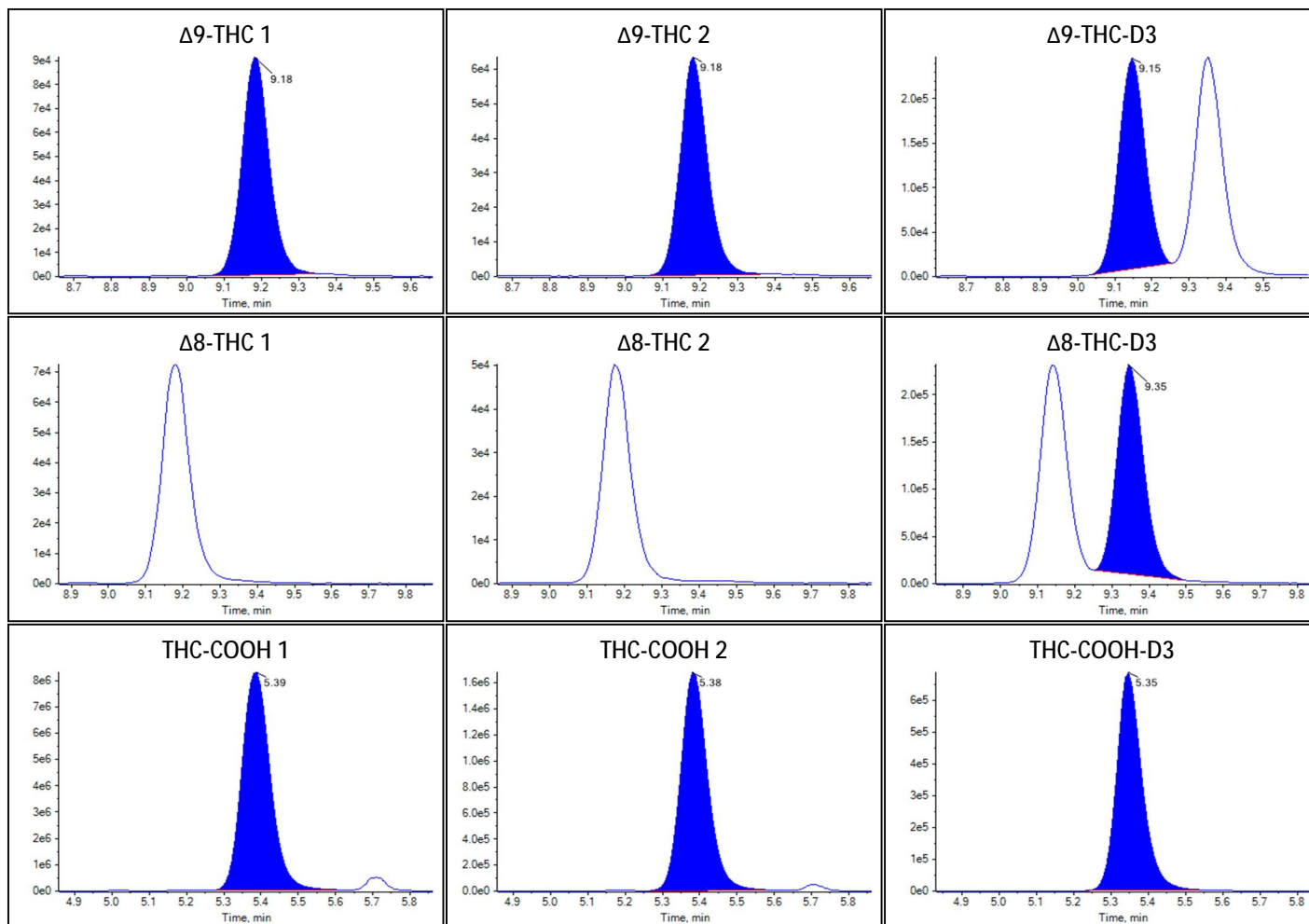
Identification Summary: Case 34

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 34



Peak Review: Case 34





Sample Summary

Sample Name	Case 35
Acquisition Date/Time	2022-09-23T02:03:25
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	45
Sample Comment	

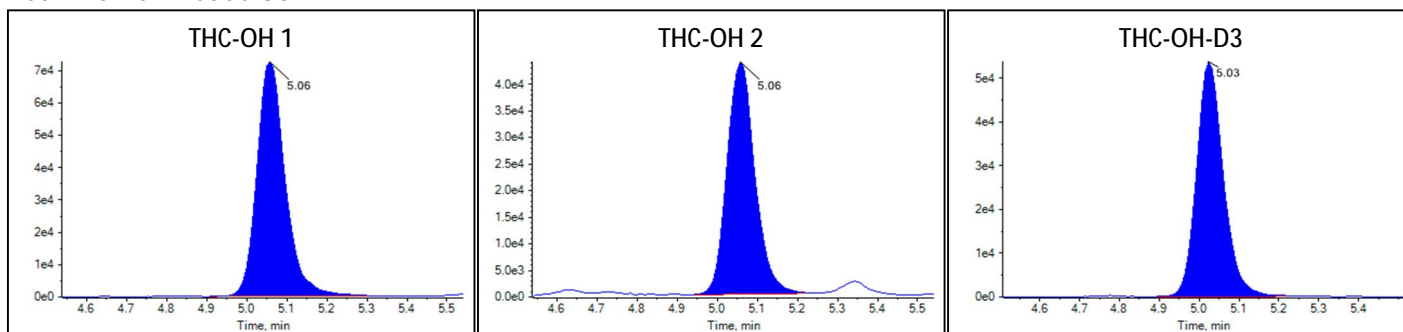
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.411e0	12.205		
Δ 9-THC	1.880e0	63.071		
Δ 8-THC	N/A	N/A		
THC-COOH	7.347e0	73.683		

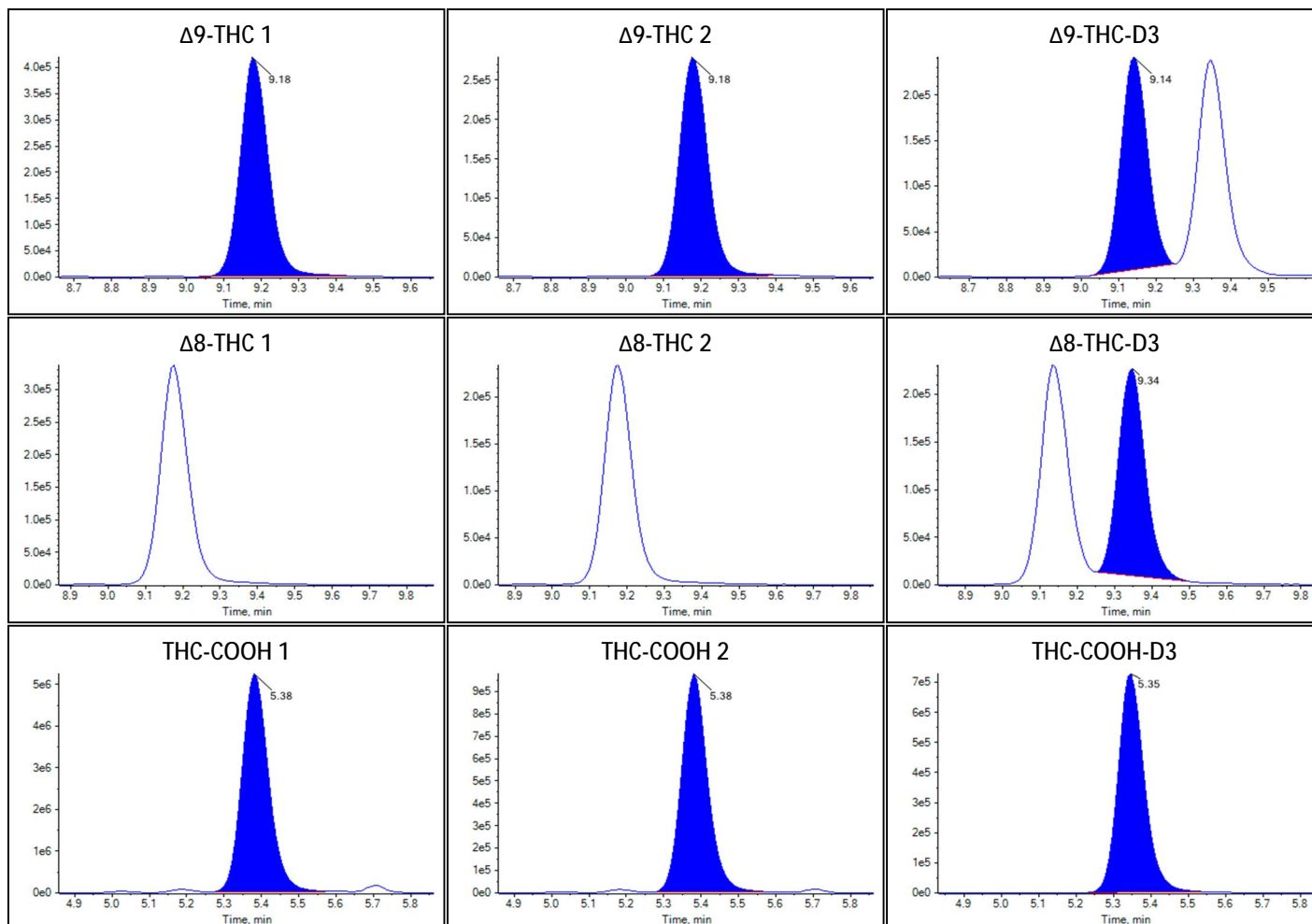
Identification Summary: Case 35

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	
Δ 8-THC 1	315.1 / 193.1	N/A	
Δ 8-THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 35



Peak Review: Case 35





Sample Summary

Sample Name	Case 36
Acquisition Date/Time	2022-09-23T02:17:30
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	46
Sample Comment	

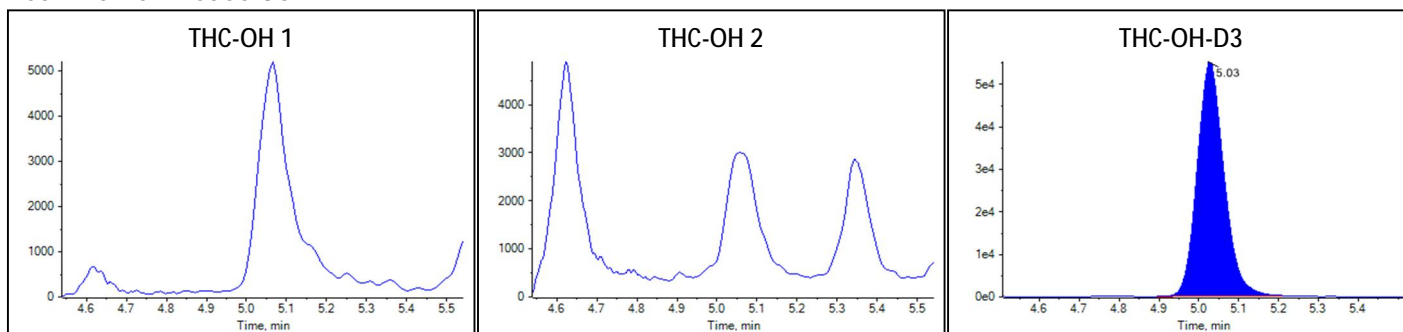
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ 9-THC	1.389e-1	4.544		
Δ 8-THC	N/A	N/A		
THC-COOH	1.329e0	13.274		

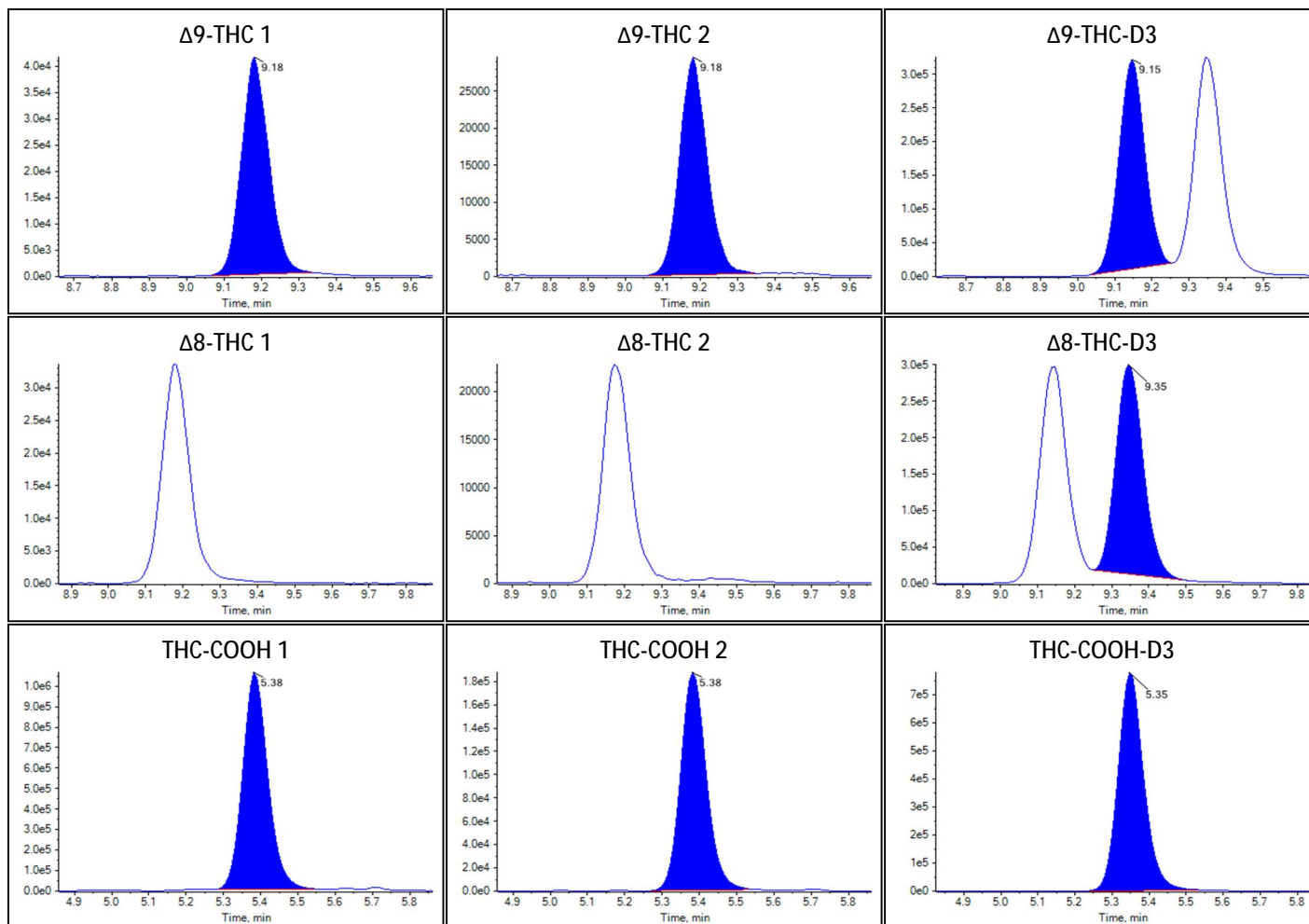
Identification Summary: Case 36

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	
Δ 8-THC 1	315.1 / 193.1	N/A	
Δ 8-THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 36



Peak Review: Case 36





Sample Summary

Sample Name	Case 37
Acquisition Date/Time	2022-09-23T02:31:36
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	47
Sample Comment	

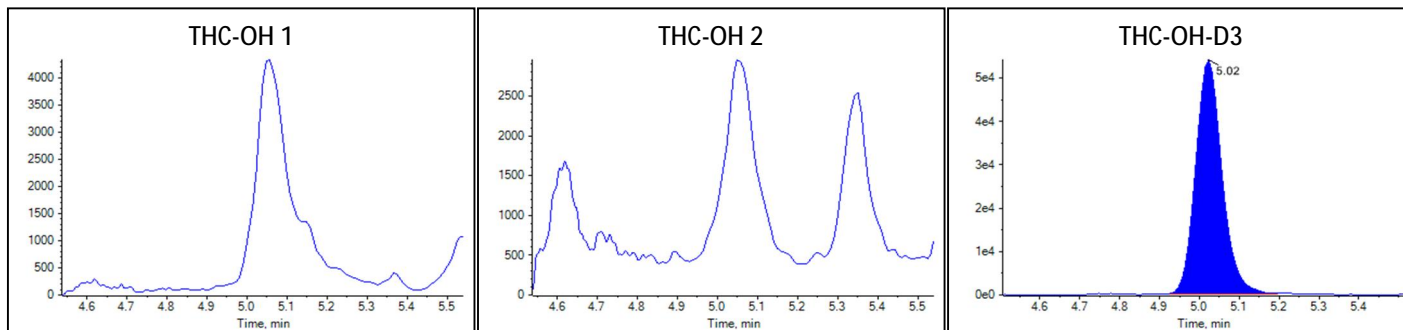
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	5.236e-2	1.799		
Δ^8 -THC	N/A	N/A		
THC-COOH	1.472e0	14.702		

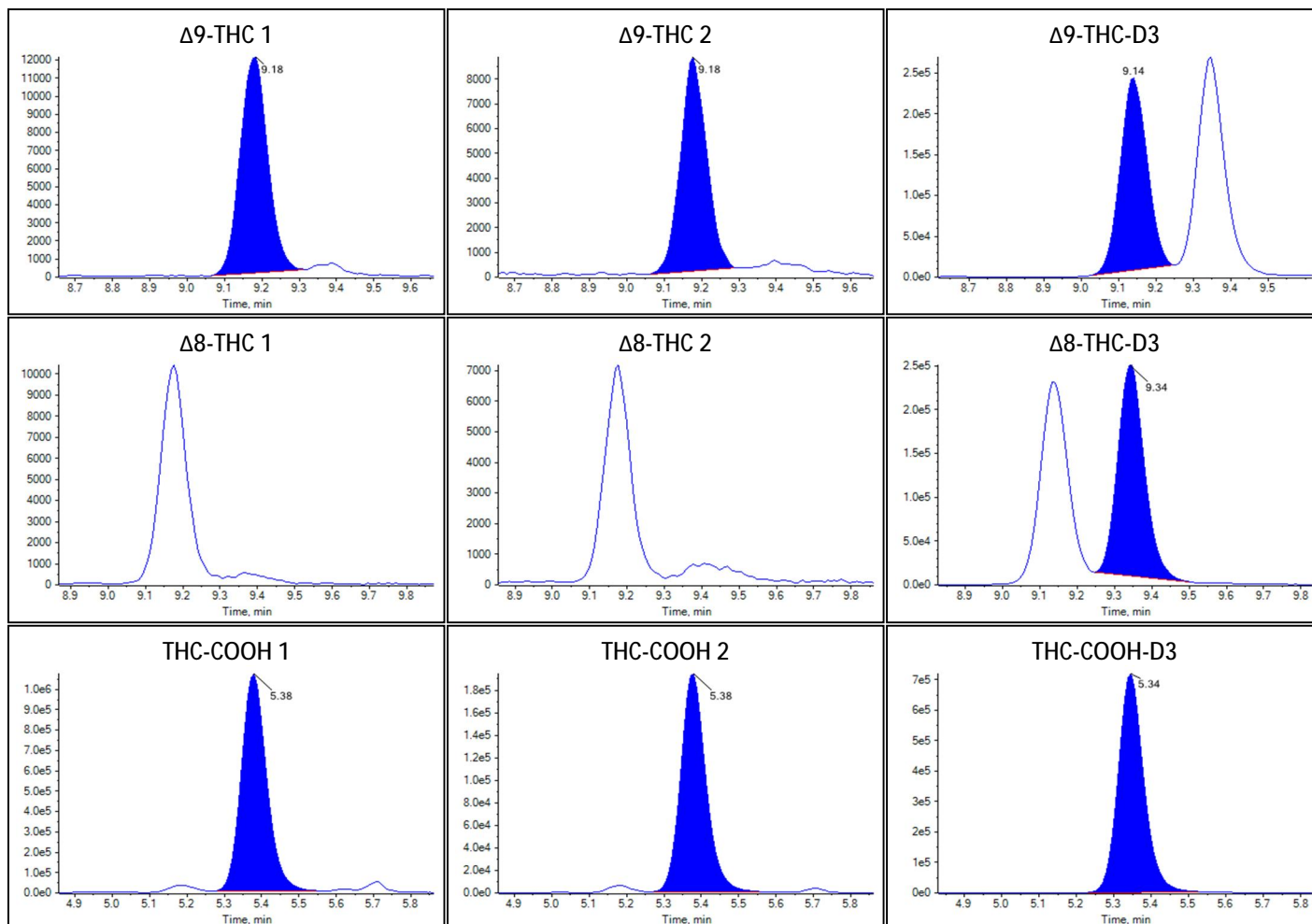
Identification Summary: Case 37

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 37



Peak Review: Case 37





Sample Summary

Sample Name	Case 38
Acquisition Date/Time	2022-09-23T02:45:41
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Unknown
File Name	20220922 Simulated Batch.wiff
Position	48
Sample Comment	

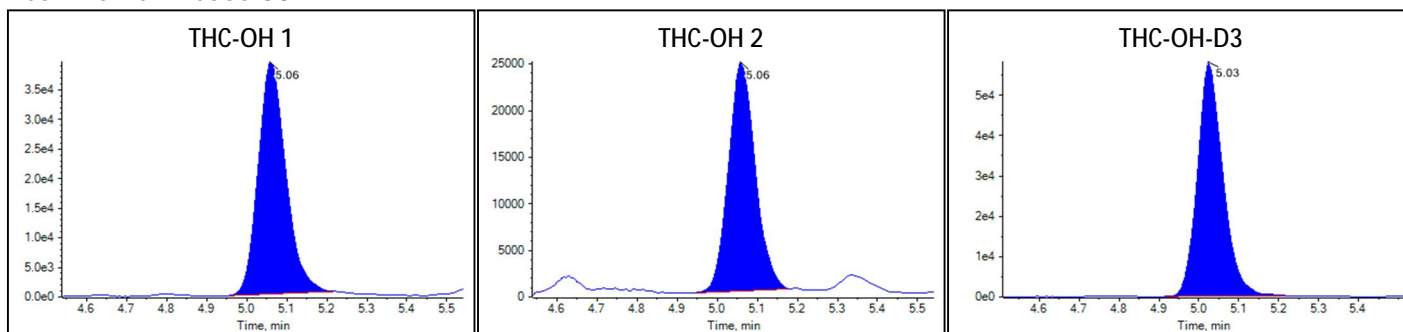
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	7.306e-1	6.310		
Δ 9-THC	4.267e-1	13.779		
Δ 8-THC	N/A	N/A		
THC-COOH	1.978e1	198.441		

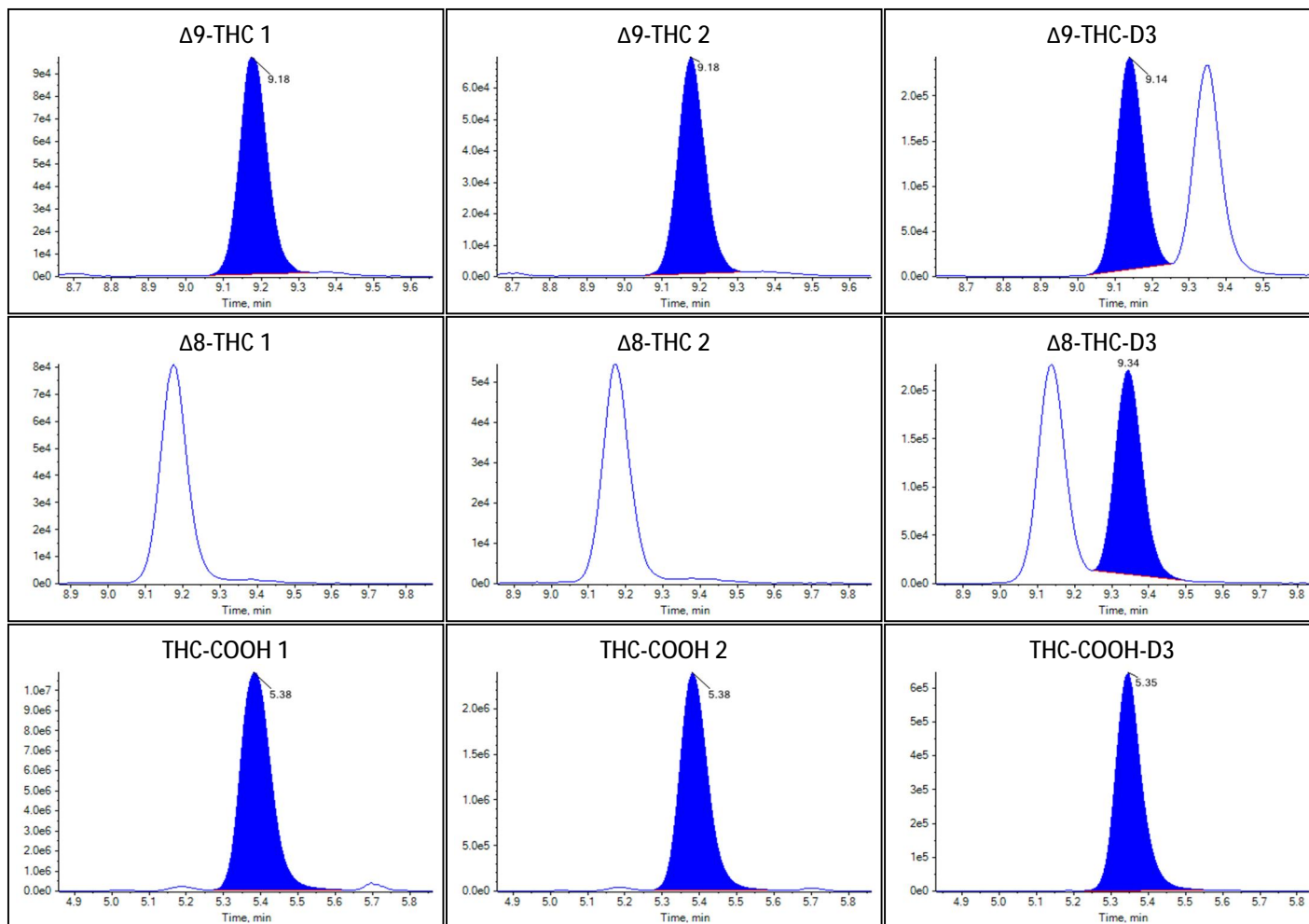
Identification Summary: Case 38

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	
Δ 8-THC 1	315.1 / 193.1	N/A	
Δ 8-THC 2	315.1 / 123.1	N/A	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: Case 38



Peak Review: Case 38





Sample Summary

Sample Name	High
Acquisition Date/Time	2022-09-23T02:59:47
Acquisition Method	THC.dam
Batch Name	Simulated batch.dab
Results Table	20220922LA Simulated Batch
Sample Type	Quality Control
File Name	20220922 Simulated Batch.wiff
Position	10
Sample Comment	

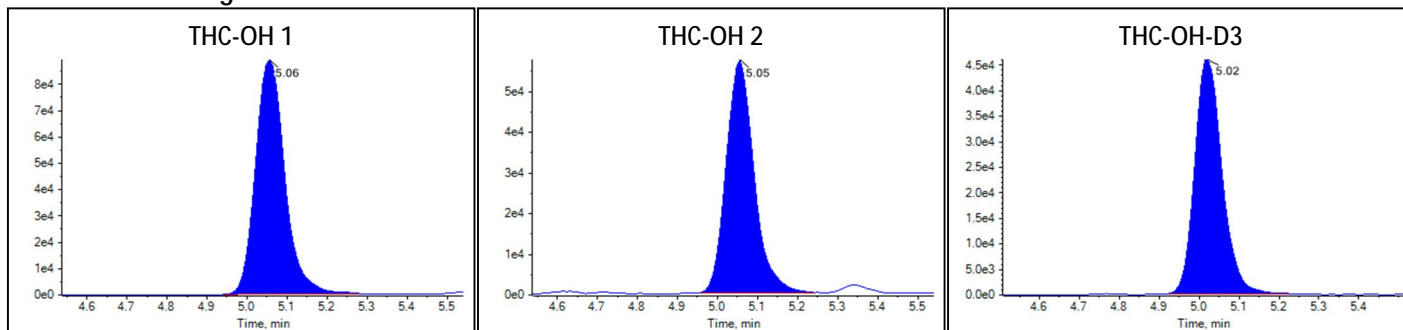
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.054e0	17.778		
Δ^9 -THC	2.446e0	83.685		
Δ^8 -THC	1.771e0	88.953		
THC-COOH	7.635e0	76.570		

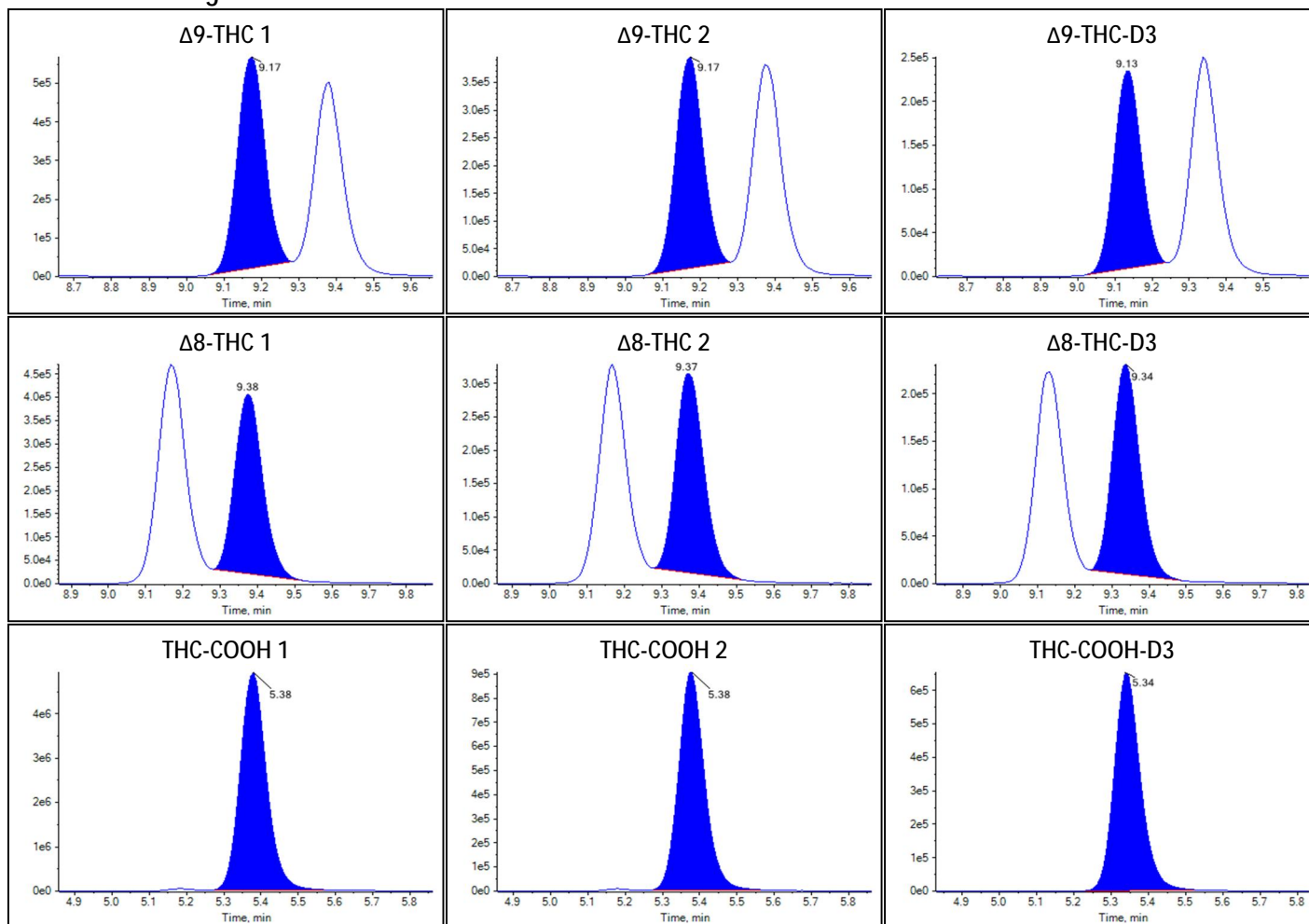
Identification Summary: High

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	

Peak Review: High



Peak Review: High



THC-COOH-D3 – Simulated Batch

Sample Name	Component Name	Area	
Standard 1	THC-COOH-D3	4.11E+06	
Standard 2	THC-COOH-D3	3.46E+06	
Standard 3	THC-COOH-D3	3.70E+06	
Standard 4	THC-COOH-D3	3.37E+06	
Standard 5	THC-COOH-D3	3.50E+06	
Standard 6	THC-COOH-D3	3.35E+06	
Negative	THC-COOH-D3	3.89E+06	
Medium	THC-COOH-D3	3.57E+06	
Case 1	THC-COOH-D3	3.53E+06	
Case 2	THC-COOH-D3	3.56E+06	
Case 3	THC-COOH-D3	3.62E+06	
Case 4	THC-COOH-D3	3.66E+06	
Case 5	THC-COOH-D3	3.59E+06	
Case 6	THC-COOH-D3	3.28E+06	
Case 7	THC-COOH-D3	3.13E+06	
Case 8	THC-COOH-D3	3.68E+06	
Case 9	THC-COOH-D3	3.24E+06	
Case 10	THC-COOH-D3	3.20E+06	
Case 11	THC-COOH-D3	3.46E+06	
Case 12	THC-COOH-D3	3.92E+06	
Case 13	THC-COOH-D3	3.64E+06	
Case 14	THC-COOH-D3	3.36E+06	
Case 15	THC-COOH-D3	3.33E+06	
Case 16	THC-COOH-D3	3.50E+06	
Case 17	THC-COOH-D3	3.44E+06	
Case 18	THC-COOH-D3	3.11E+06	
Case 19	THC-COOH-D3	3.58E+06	
Low	THC-COOH-D3	3.30E+06	
Case 20	THC-COOH-D3	3.74E+06	
Case 21	THC-COOH-D3	3.47E+06	
Case 22	THC-COOH-D3	3.32E+06	
Case 23	THC-COOH-D3	3.50E+06	
Case 24	THC-COOH-D3	2.61E+06	
Case 25	THC-COOH-D3	3.79E+06	
Case 26	THC-COOH-D3	3.75E+06	
Case 27	THC-COOH-D3	3.71E+06	
Case 28	THC-COOH-D3	2.89E+06	
Case 29	THC-COOH-D3	3.34E+06	

Case 30	THC-COOH-D3	3.34E+06	
Case 31	THC-COOH-D3	3.76E+06	
Case 32	THC-COOH-D3	3.71E+06	
Case 33	THC-COOH-D3	3.60E+06	
Case 34	THC-COOH-D3	3.25E+06	
Case 35	THC-COOH-D3	3.54E+06	
Case 36	THC-COOH-D3	3.74E+06	
Case 37	THC-COOH-D3	3.42E+06	
Case 38	THC-COOH-D3	3.14E+06	
High	THC-COOH-D3	3.18E+06	
Average	3.48E+06		# out
15% range	2.96E+06	4.00E+06	3
20% range	2.78E+06	4.17E+06	1
25% range	2.61E+06	4.35E+06	0
30% range	2.43E+06	4.52E+06	0
35% range	2.26E+06	4.69E+06	0
40% range	2.09E+06	4.87E+06	0

THC-OH-D3 – Simulated Batch

Sample Name	Component Name	Area	
Standard 1	THC-OH-D3	2.67E+05	
Standard 2	THC-OH-D3	2.22E+05	
Standard 3	THC-OH-D3	2.49E+05	
Standard 4	THC-OH-D3	2.30E+05	
Standard 5	THC-OH-D3	2.51E+05	
Standard 6	THC-OH-D3	2.32E+05	
Negative	THC-OH-D3	2.41E+05	
Medium	THC-OH-D3	2.36E+05	
Case 1	THC-OH-D3	2.46E+05	
Case 2	THC-OH-D3	2.53E+05	
Case 3	THC-OH-D3	2.53E+05	
Case 4	THC-OH-D3	2.49E+05	
Case 5	THC-OH-D3	2.46E+05	
Case 6	THC-OH-D3	2.35E+05	
Case 7	THC-OH-D3	2.27E+05	
Case 8	THC-OH-D3	2.56E+05	
Case 9	THC-OH-D3	2.40E+05	
Case 10	THC-OH-D3	2.28E+05	
Case 11	THC-OH-D3	2.36E+05	

Case 12	THC-OH-D3	2.60E+05	
Case 13	THC-OH-D3	2.58E+05	
Case 14	THC-OH-D3	2.63E+05	
Case 15	THC-OH-D3	2.42E+05	
Case 16	THC-OH-D3	2.48E+05	
Case 17	THC-OH-D3	2.39E+05	
Case 18	THC-OH-D3	2.55E+05	
Case 19	THC-OH-D3	2.38E+05	
Low	THC-OH-D3	2.13E+05	
Case 20	THC-OH-D3	2.38E+05	
Case 21	THC-OH-D3	2.42E+05	
Case 22	THC-OH-D3	2.28E+05	
Case 23	THC-OH-D3	2.73E+05	
Case 24	THC-OH-D3	2.44E+05	
Case 25	THC-OH-D3	2.54E+05	
Case 26	THC-OH-D3	2.63E+05	
Case 27	THC-OH-D3	2.57E+05	
Case 28	THC-OH-D3	2.47E+05	
Case 29	THC-OH-D3	2.40E+05	
Case 30	THC-OH-D3	2.57E+05	
Case 31	THC-OH-D3	2.41E+05	
Case 32	THC-OH-D3	2.56E+05	
Case 33	THC-OH-D3	2.45E+05	
Case 34	THC-OH-D3	2.52E+05	
Case 35	THC-OH-D3	2.51E+05	
Case 36	THC-OH-D3	2.58E+05	
Case 37	THC-OH-D3	2.47E+05	
Case 38	THC-OH-D3	2.58E+05	
High	THC-OH-D3	2.20E+05	
Average	2.45E+05		# out
15% range	2.09E+05	2.82E+05	0
20% range	1.96E+05	2.95E+05	0
25% range	1.84E+05	3.07E+05	0
30% range	1.72E+05	3.19E+05	0
35% range	1.60E+05	3.31E+05	0
40% range	1.47E+05	3.44E+05	0

Δ8-THC-D3 – Simulated Batch

Sample Name	Component Name	Area	
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Standard 1	$\Delta 8$ -THC-D3	1.79E+06	
Standard 2	$\Delta 8$ -THC-D3	1.36E+06	
Standard 3	$\Delta 8$ -THC-D3	1.44E+06	
Standard 4	$\Delta 8$ -THC-D3	1.26E+06	
Standard 5	$\Delta 8$ -THC-D3	1.31E+06	
Standard 6	$\Delta 8$ -THC-D3	1.31E+06	
Negative	$\Delta 8$ -THC-D3	1.36E+06	
Medium	$\Delta 8$ -THC-D3	1.38E+06	
Case 1	$\Delta 8$ -THC-D3	1.54E+06	
Case 2	$\Delta 8$ -THC-D3	1.50E+06	
Case 3	$\Delta 8$ -THC-D3	1.91E+06	
Case 4	$\Delta 8$ -THC-D3	1.43E+06	
Case 5	$\Delta 8$ -THC-D3	1.24E+06	
Case 6	$\Delta 8$ -THC-D3	1.56E+06	
Case 7	$\Delta 8$ -THC-D3	1.34E+06	
Case 8	$\Delta 8$ -THC-D3	1.61E+06	
Case 9	$\Delta 8$ -THC-D3	1.25E+06	
Case 10	$\Delta 8$ -THC-D3	1.55E+06	
Case 11	$\Delta 8$ -THC-D3	1.34E+06	
Case 12	$\Delta 8$ -THC-D3	1.40E+06	
Case 13	$\Delta 8$ -THC-D3	1.55E+06	
Case 14	$\Delta 8$ -THC-D3	1.75E+06	
Case 15	$\Delta 8$ -THC-D3	1.30E+06	
Case 16	$\Delta 8$ -THC-D3	1.44E+06	
Case 17	$\Delta 8$ -THC-D3	1.33E+06	
Case 18	$\Delta 8$ -THC-D3	1.29E+06	
Case 19	$\Delta 8$ -THC-D3	1.15E+06	
Low	$\Delta 8$ -THC-D3	1.25E+06	
Case 20	$\Delta 8$ -THC-D3	1.16E+06	
Case 21	$\Delta 8$ -THC-D3	1.29E+06	
Case 22	$\Delta 8$ -THC-D3	1.22E+06	
Case 23	$\Delta 8$ -THC-D3	1.33E+06	
Case 24	$\Delta 8$ -THC-D3	1.34E+06	
Case 25	$\Delta 8$ -THC-D3	1.25E+06	
Case 26	$\Delta 8$ -THC-D3	1.39E+06	
Case 27	$\Delta 8$ -THC-D3	1.24E+06	
Case 28	$\Delta 8$ -THC-D3	1.19E+06	
Case 29	$\Delta 8$ -THC-D3	9.93E+05	
Case 30	$\Delta 8$ -THC-D3	1.33E+06	
Case 31	$\Delta 8$ -THC-D3	1.14E+06	
Case 32	$\Delta 8$ -THC-D3	1.46E+06	

Case 33	$\Delta 8$ -THC-D3	1.08E+06	
Case 34	$\Delta 8$ -THC-D3	1.11E+06	
Case 35	$\Delta 8$ -THC-D3	1.10E+06	
Case 36	$\Delta 8$ -THC-D3	1.47E+06	
Case 37	$\Delta 8$ -THC-D3	1.20E+06	
Case 38	$\Delta 8$ -THC-D3	1.08E+06	
High	$\Delta 8$ -THC-D3	1.14E+06	
Average	1.34E+06		# out
15% range	1.14E+06	1.54E+06	13
20% range	1.07E+06	1.61E+06	5
25% range	1.01E+06	1.68E+06	4
30% range	9.39E+05	1.74E+06	3
35% range	8.72E+05	1.81E+06	1
40% range	8.05E+05	1.88E+06	1
50% range	6.71E+05	2.01E+06	0

$\Delta 9$ -THC-D3 – Simulated Batch

Sample Name	Component Name	Area	
Standard 1	$\Delta 9$ -THC-D3	1.77E+06	
Standard 2	$\Delta 9$ -THC-D3	1.40E+06	
Standard 3	$\Delta 9$ -THC-D3	1.47E+06	
Standard 4	$\Delta 9$ -THC-D3	1.29E+06	
Standard 5	$\Delta 9$ -THC-D3	1.30E+06	
Standard 6	$\Delta 9$ -THC-D3	1.32E+06	
Negative	$\Delta 9$ -THC-D3	1.37E+06	
Medium	$\Delta 9$ -THC-D3	1.40E+06	
Case 1	$\Delta 9$ -THC-D3	1.57E+06	
Case 2	$\Delta 9$ -THC-D3	1.40E+06	
Case 3	$\Delta 9$ -THC-D3	1.71E+06	
Case 4	$\Delta 9$ -THC-D3	1.52E+06	
Case 5	$\Delta 9$ -THC-D3	1.26E+06	
Case 6	$\Delta 9$ -THC-D3	1.52E+06	
Case 7	$\Delta 9$ -THC-D3	1.34E+06	
Case 8	$\Delta 9$ -THC-D3	1.64E+06	
Case 9	$\Delta 9$ -THC-D3	1.26E+06	
Case 10	$\Delta 9$ -THC-D3	1.51E+06	
Case 11	$\Delta 9$ -THC-D3	1.37E+06	
Case 12	$\Delta 9$ -THC-D3	1.39E+06	
Case 13	$\Delta 9$ -THC-D3	1.53E+06	

Case 14	$\Delta 9$ -THC-D3	1.48E+06	
Case 15	$\Delta 9$ -THC-D3	1.31E+06	
Case 16	$\Delta 9$ -THC-D3	1.45E+06	
Case 17	$\Delta 9$ -THC-D3	1.35E+06	
Case 18	$\Delta 9$ -THC-D3	1.34E+06	
Case 19	$\Delta 9$ -THC-D3	1.16E+06	
Low	$\Delta 9$ -THC-D3	1.26E+06	
Case 20	$\Delta 9$ -THC-D3	1.23E+06	
Case 21	$\Delta 9$ -THC-D3	1.33E+06	
Case 22	$\Delta 9$ -THC-D3	1.24E+06	
Case 23	$\Delta 9$ -THC-D3	1.35E+06	
Case 24	$\Delta 9$ -THC-D3	1.28E+06	
Case 25	$\Delta 9$ -THC-D3	1.29E+06	
Case 26	$\Delta 9$ -THC-D3	1.46E+06	
Case 27	$\Delta 9$ -THC-D3	1.26E+06	
Case 28	$\Delta 9$ -THC-D3	1.26E+06	
Case 29	$\Delta 9$ -THC-D3	1.07E+06	
Case 30	$\Delta 9$ -THC-D3	1.40E+06	
Case 31	$\Delta 9$ -THC-D3	1.19E+06	
Case 32	$\Delta 9$ -THC-D3	1.42E+06	
Case 33	$\Delta 9$ -THC-D3	1.16E+06	
Case 34	$\Delta 9$ -THC-D3	1.18E+06	
Case 35	$\Delta 9$ -THC-D3	1.17E+06	
Case 36	$\Delta 9$ -THC-D3	1.51E+06	
Case 37	$\Delta 9$ -THC-D3	1.18E+06	
Case 38	$\Delta 9$ -THC-D3	1.19E+06	
High	$\Delta 9$ -THC-D3	1.15E+06	
Average	1.35E+06		# out
15% range	1.15E+06	1.56E+06	6
20% range	1.08E+06	1.63E+06	4
25% range	1.02E+06	1.69E+06	2
30% range	9.48E+05	1.76E+06	1
35% range	8.80E+05	1.83E+06	0
40% range	8.13E+05	1.90E+06	0

1 μ L INJECTION



Sample Summary

Sample Name	Standard 1
Acquisition Date/Time	2022-10-07T15:20:17
Acquisition Method	THC.dam
Batch Name	Bias and precision batch.dab
Results Table	20221007 Injection Volume
Sample Type	Standard
File Name	20221007 Injection volume study.wiff
Position	1
Sample Comment	

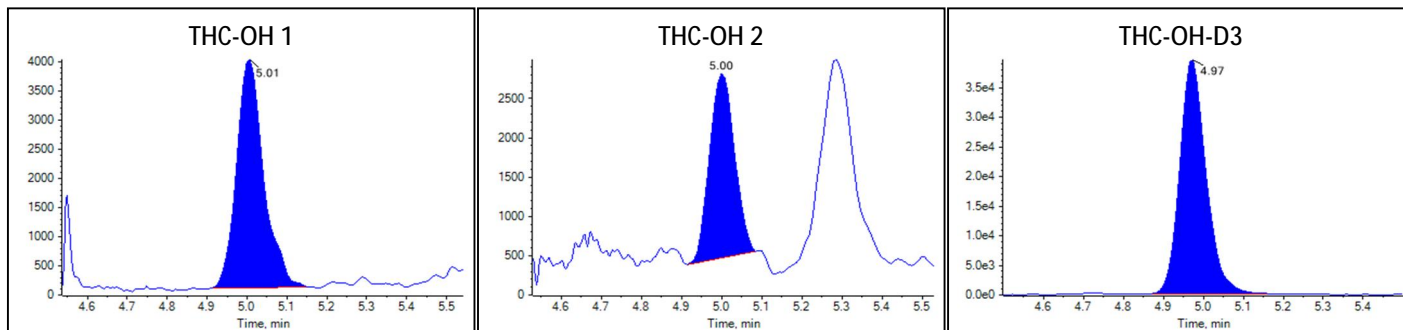
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.1023	1.005		
Δ 9-THC	0.0247	1.037		
Δ 8-THC	0.0195	1.097		
THC-COOH	0.5041	4.796		

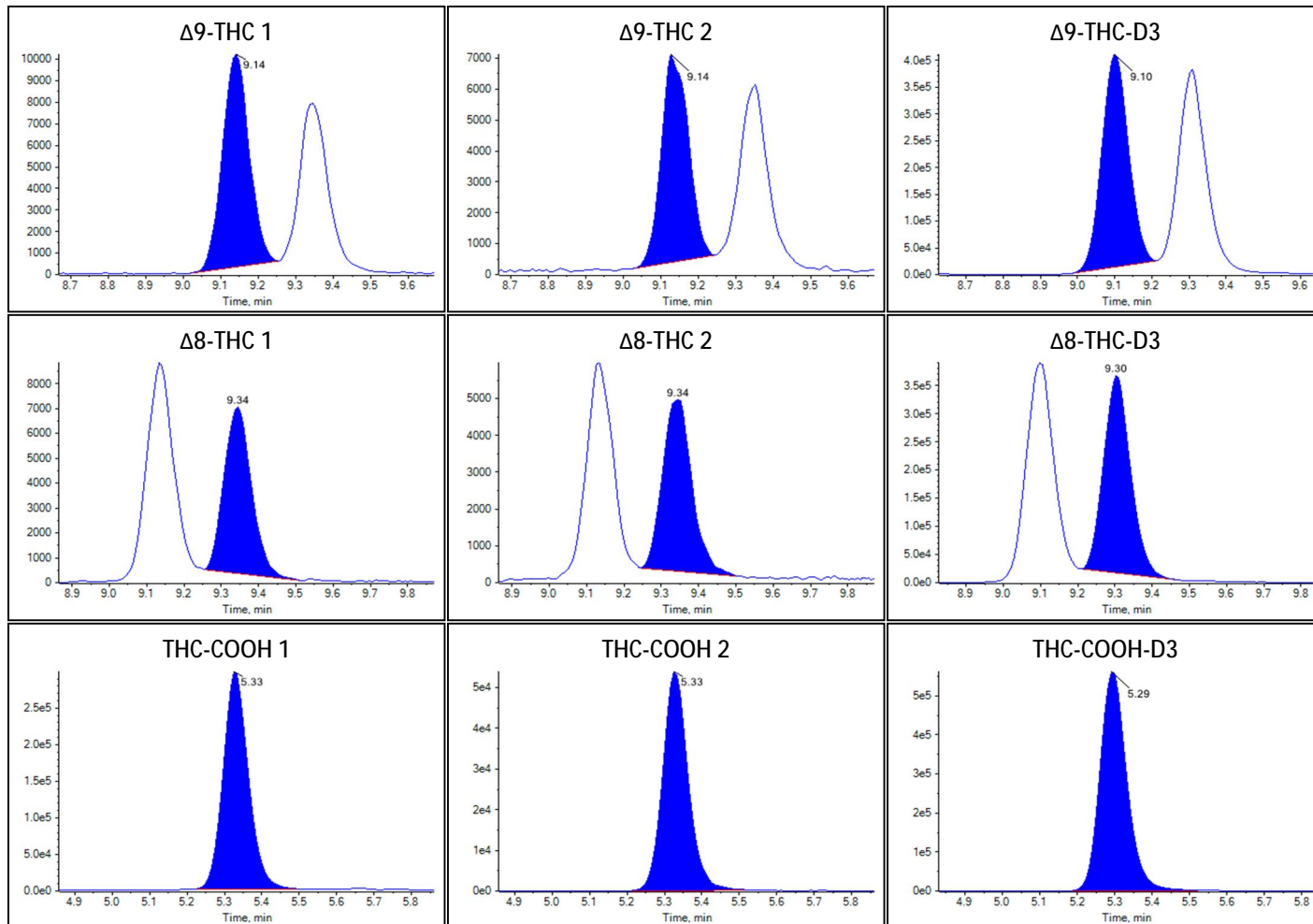
Identification Summary: Standard 1

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.548(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.690(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.749(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.183(Pass)

Peak Review: Standard 1



Peak Review: Standard 1





Sample Summary

Sample Name	Standard 2
Acquisition Date/Time	2022-10-07T15:34:22
Acquisition Method	THC.dam
Batch Name	Bias and precision batch.dab
Results Table	20221007 Injection Volume
Sample Type	Standard
File Name	20221007 Injection volume study.wiff
Position	2
Sample Comment	

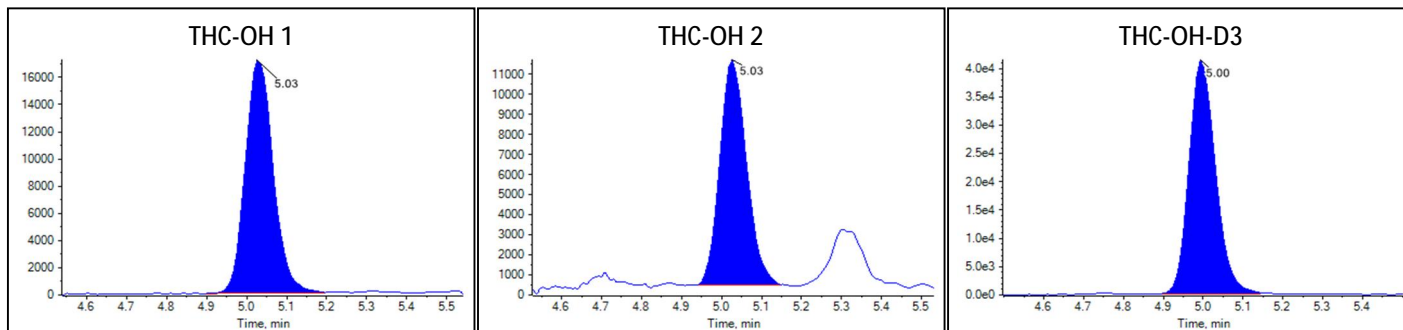
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.4364	3.887		
Δ^9 -THC	0.1270	4.777		
Δ^8 -THC	0.0975	4.476		
THC-COOH	0.9894	9.688		

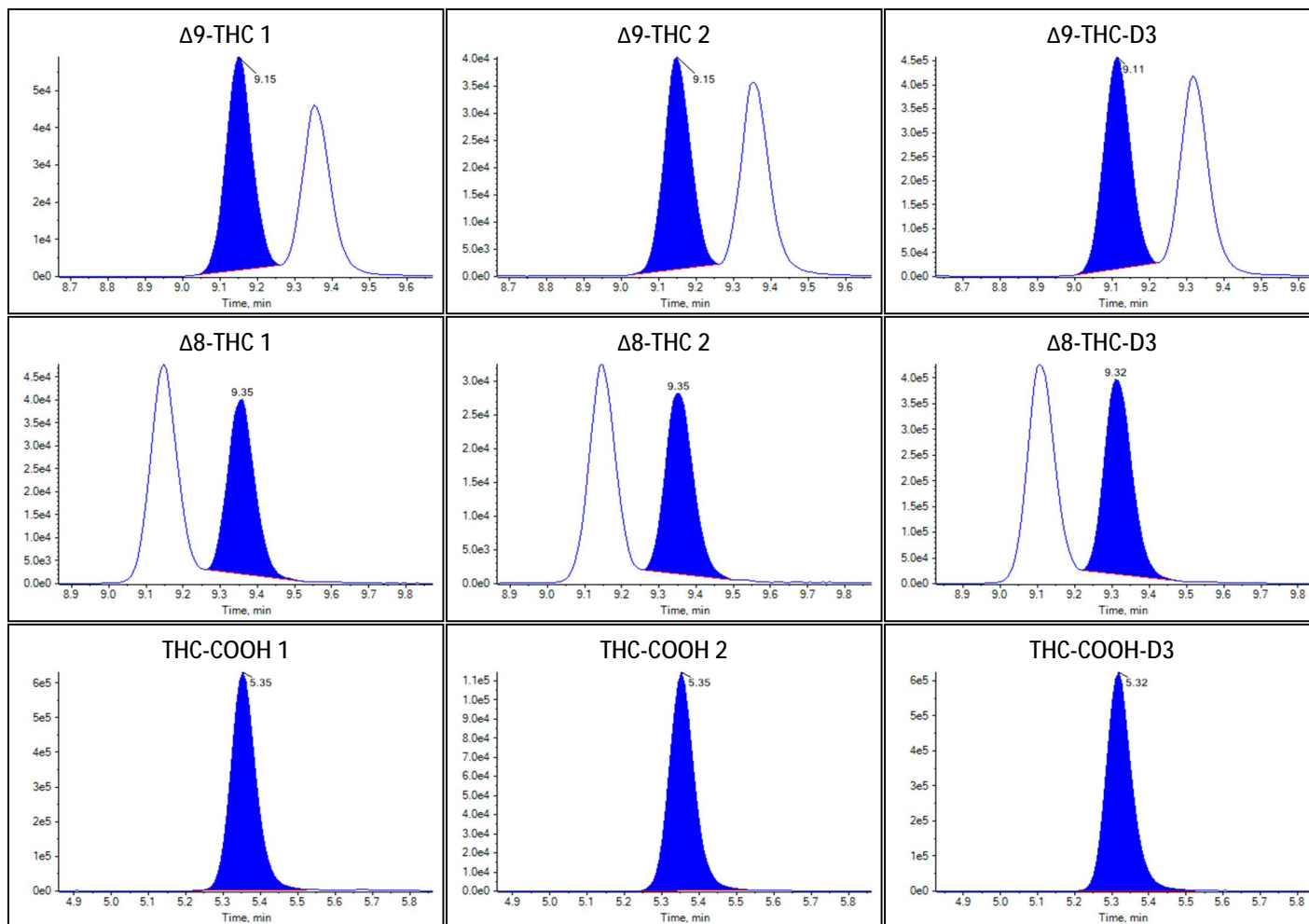
Identification Summary: Standard 2

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.622(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.687(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.737(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.181(Pass)

Peak Review: Standard 2



Peak Review: Standard 2





Sample Summary

Sample Name	Standard 3
Acquisition Date/Time	2022-10-07T15:48:27
Acquisition Method	THC.dam
Batch Name	Bias and precision batch.dab
Results Table	20221007 Injection Volume
Sample Type	Standard
File Name	20221007 Injection volume study.wiff
Position	3
Sample Comment	

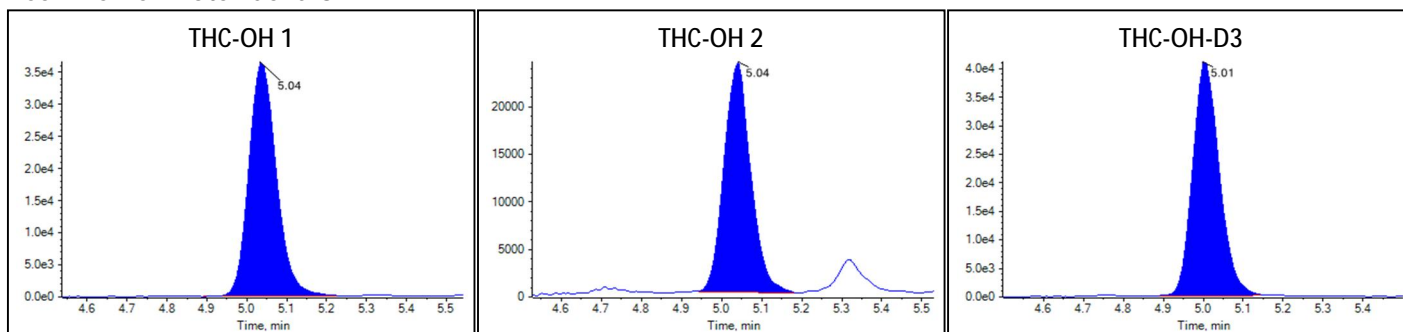
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.9151	8.016		
Δ^9 -THC	0.8010	30.073		
Δ^8 -THC	0.6381	29.494		
THC-COOH	2.7067	26.997		

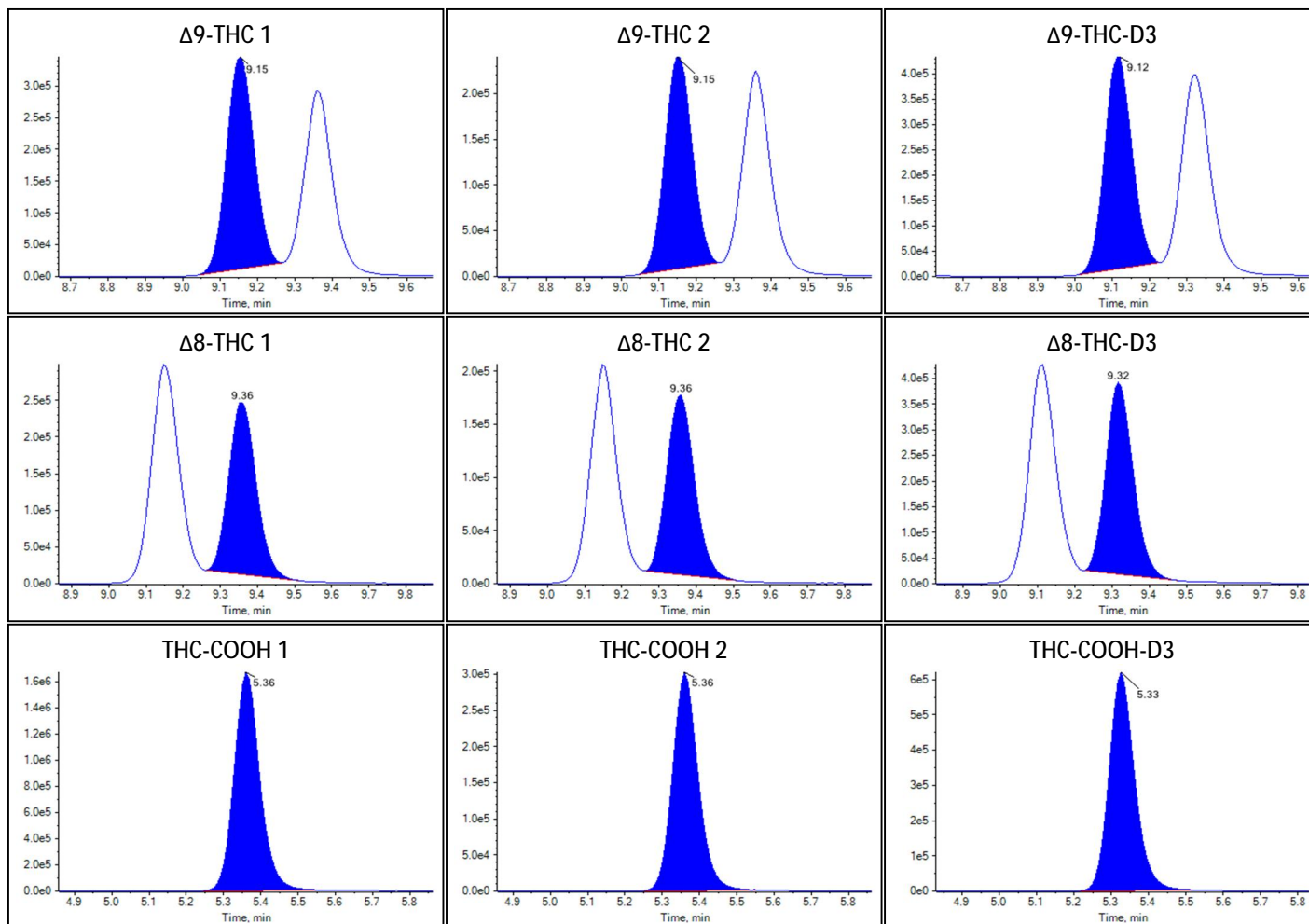
Identification Summary: Standard 3

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.641(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.695(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.727(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.180(Pass)

Peak Review: Standard 3



Peak Review: Standard 3





Sample Summary

Sample Name	Standard 4
Acquisition Date/Time	2022-10-07T16:02:33
Acquisition Method	THC.dam
Batch Name	Bias and precision batch.dab
Results Table	20221007 Injection Volume
Sample Type	Standard
File Name	20221007 Injection volume study.wiff
Position	4
Sample Comment	

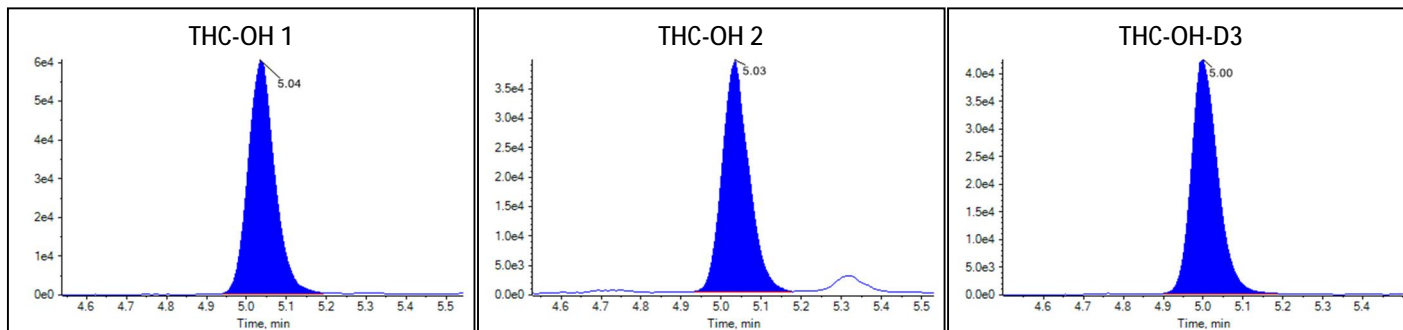
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.4247	12.411		
Δ^9 -THC	1.3299	50.826		
Δ^8 -THC	1.0491	50.938		
THC-COOH	5.1243	51.365		

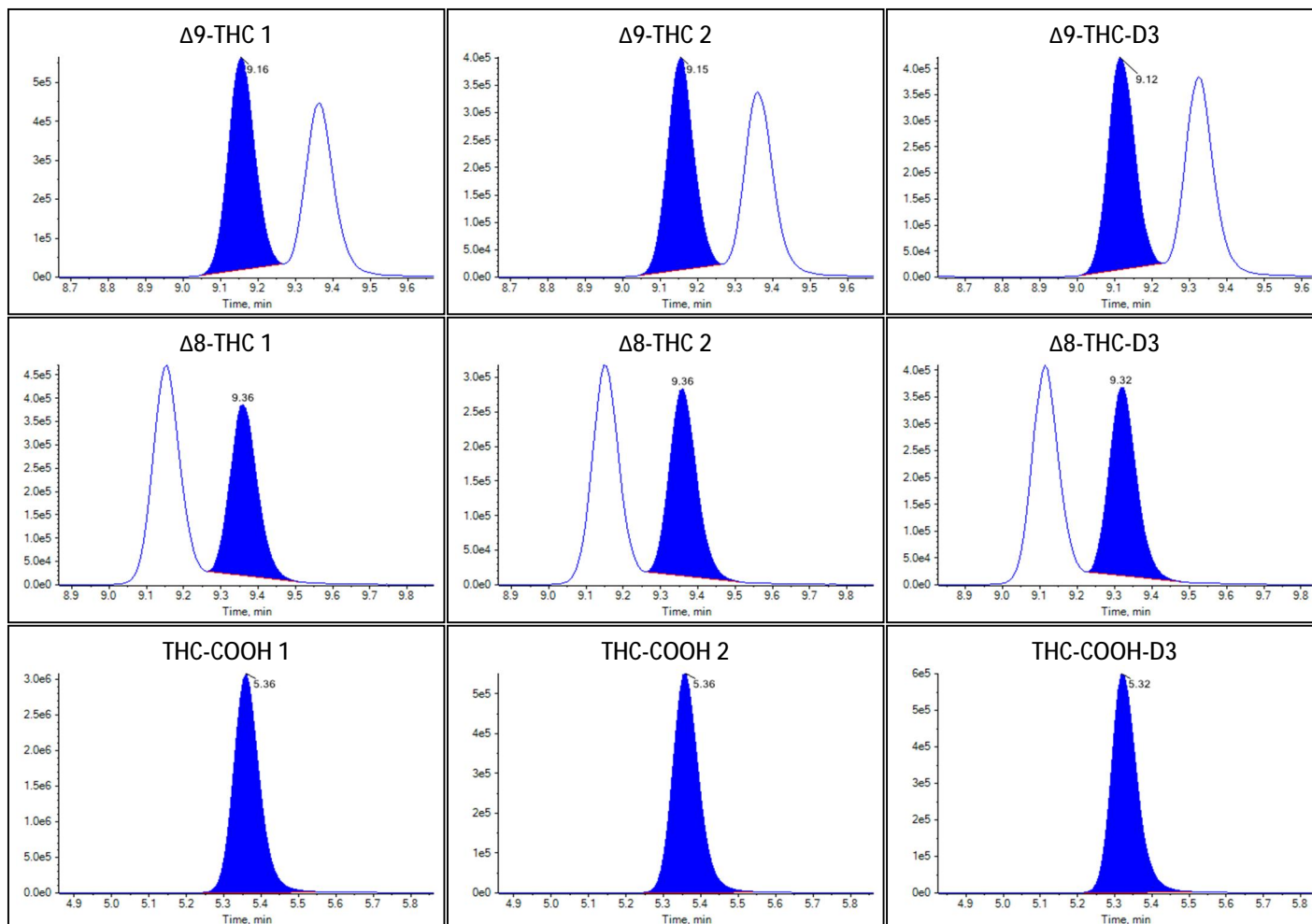
Identification Summary: Standard 4

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.646(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.702(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.738(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.181(Pass)

Peak Review: Standard 4



Peak Review: Standard 4





Sample Summary

Sample Name	Standard 5
Acquisition Date/Time	2022-10-07T16:16:35
Acquisition Method	THC.dam
Batch Name	Bias and precision batch.dab
Results Table	20221007 Injection Volume
Sample Type	Standard
File Name	20221007 Injection volume study.wiff
Position	5
Sample Comment	

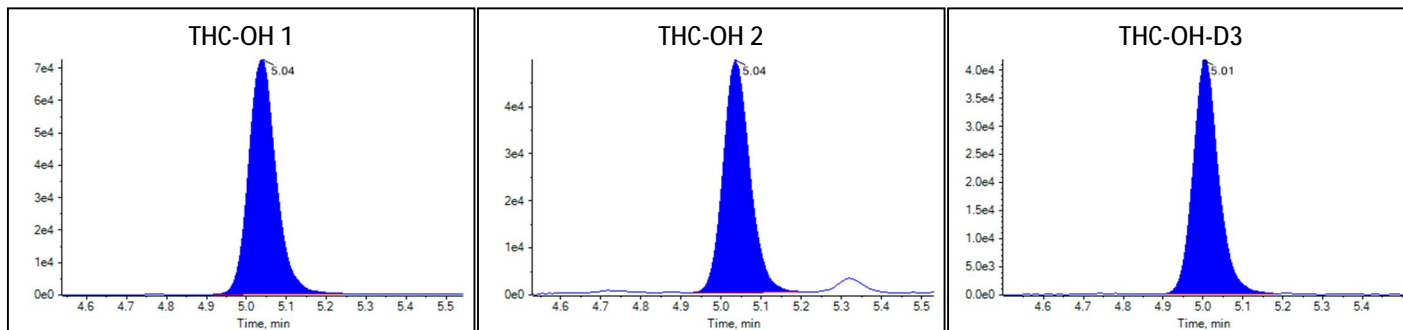
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.8665	16.221		
Δ^9 -THC	1.7763	69.046		
Δ^8 -THC	1.4000	71.640		
THC-COOH	7.2684	72.975		

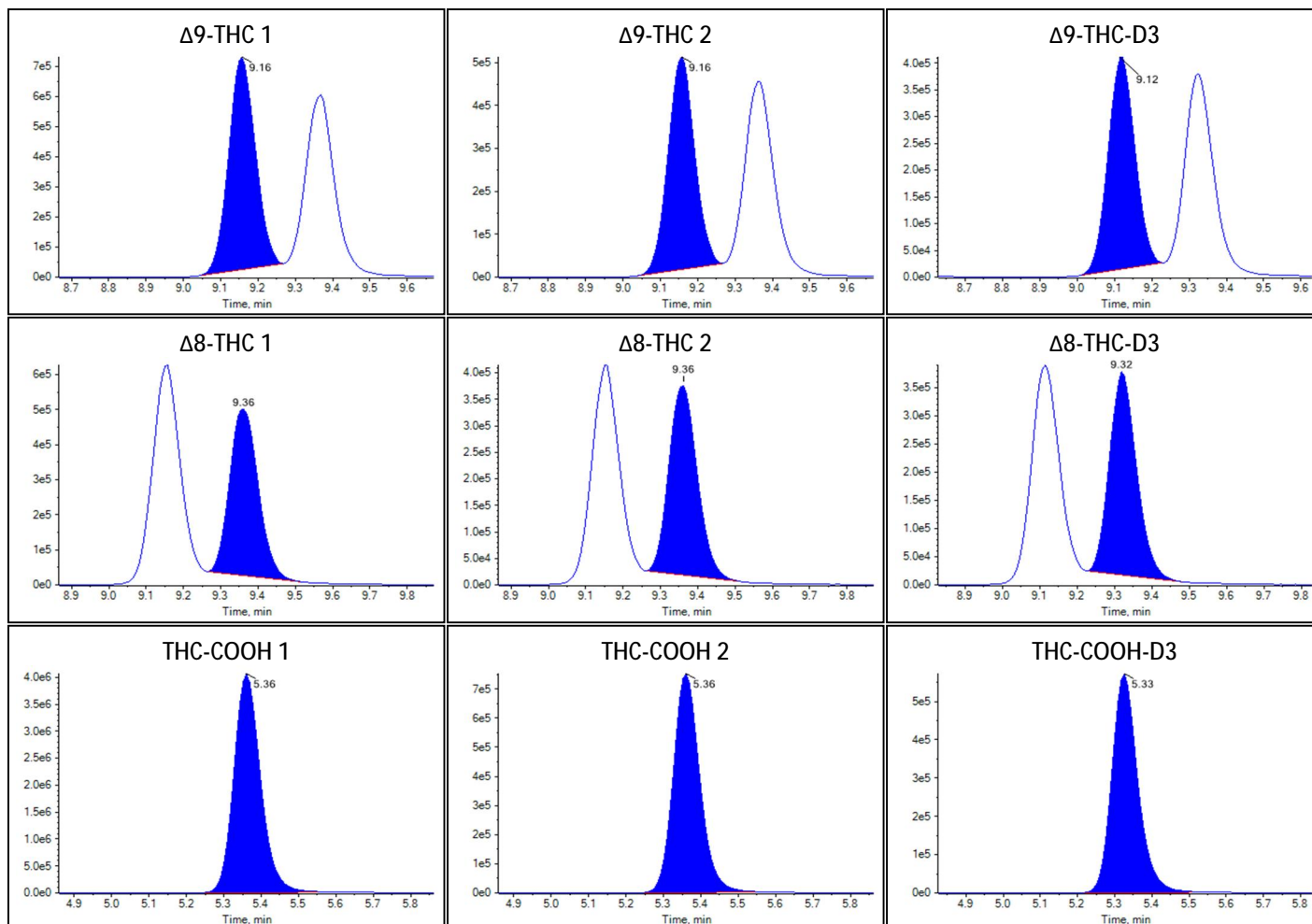
Identification Summary: Standard 5

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.660(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.698(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.743(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.184(Pass)

Peak Review: Standard 5



Peak Review: Standard 5





Sample Summary

Sample Name	Standard 6
Acquisition Date/Time	2022-10-07T16:30:37
Acquisition Method	THC.dam
Batch Name	Bias and precision batch.dab
Results Table	20221007 Injection Volume
Sample Type	Standard
File Name	20221007 Injection volume study.wiff
Position	6
Sample Comment	

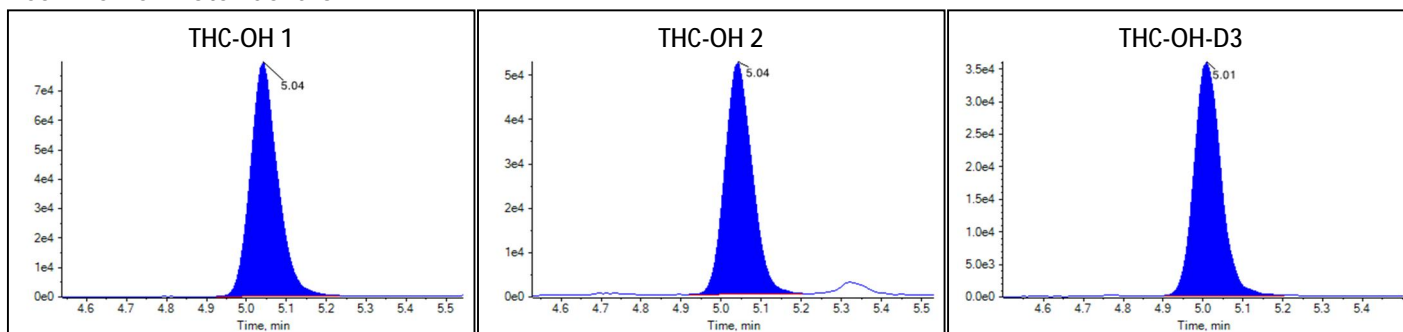
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	2.2422	19.461		
Δ 9-THC	2.5019	100.242		
Δ 8-THC	1.7845	98.217		
THC-COOH	9.8683	99.180		

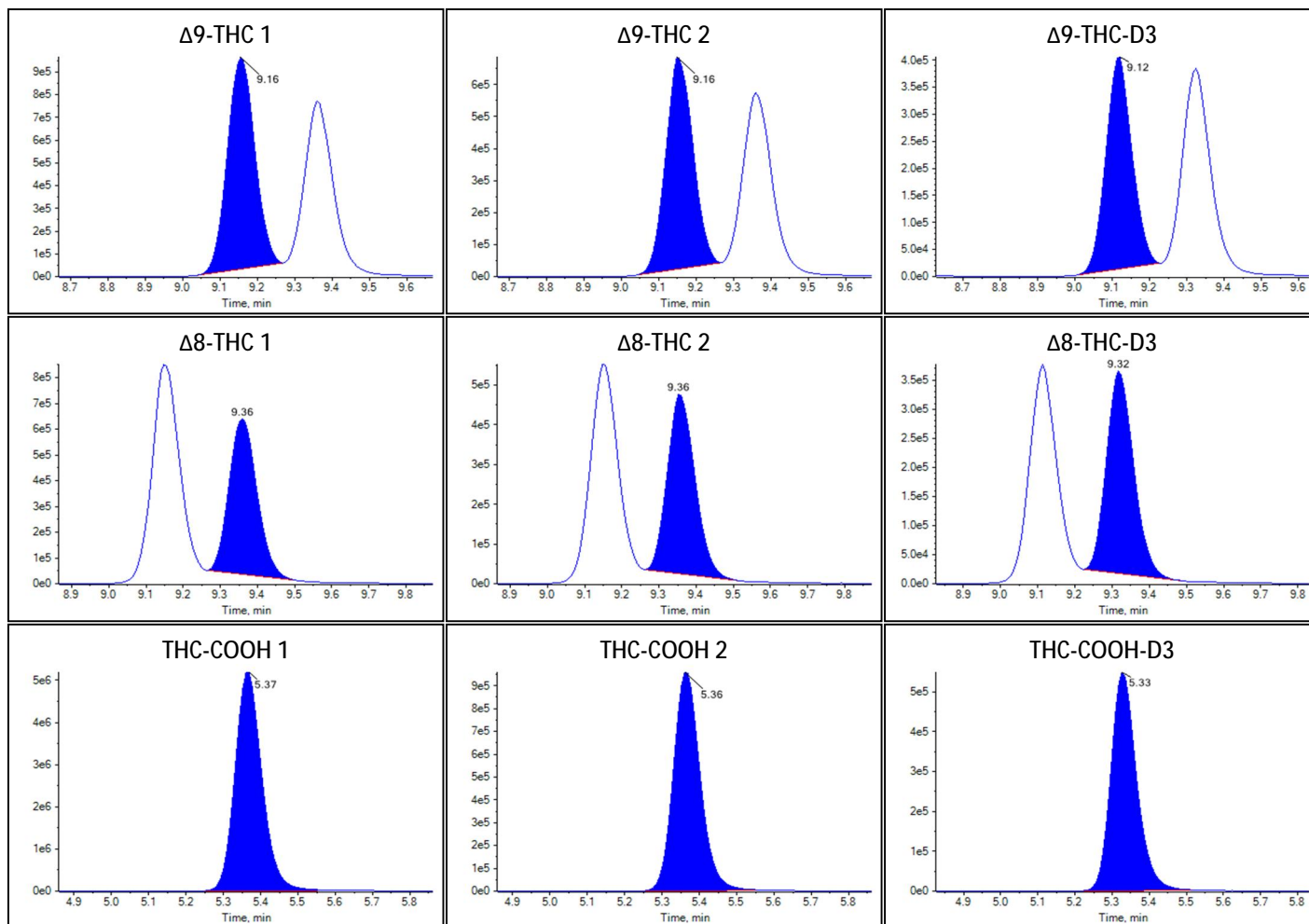
Identification Summary: Standard 6

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.658(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.703(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.740(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.184(Pass)

Peak Review: Standard 6



Peak Review: Standard 6





Sample Summary

Sample Name	Low
Acquisition Date/Time	2022-10-07T16:44:43
Acquisition Method	THC.dam
Batch Name	Bias and precision batch.dab
Results Table	20221007 Injection Volume
Sample Type	Quality Control
File Name	20221007 Injection volume study.wiff
Position	7
Sample Comment	

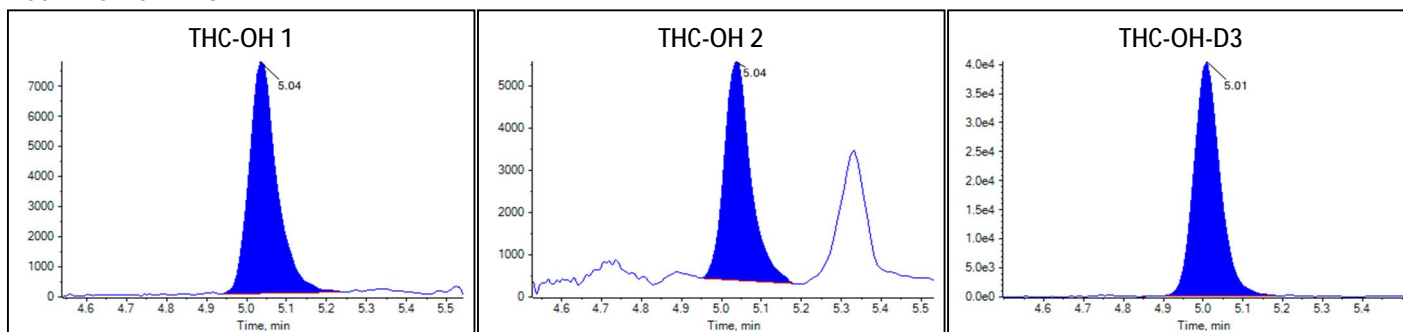
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	0.2036	1.879		
Δ 9-THC	0.0692	2.660		
Δ 8-THC	0.0550	2.629		
THC-COOH	0.7561	7.336		

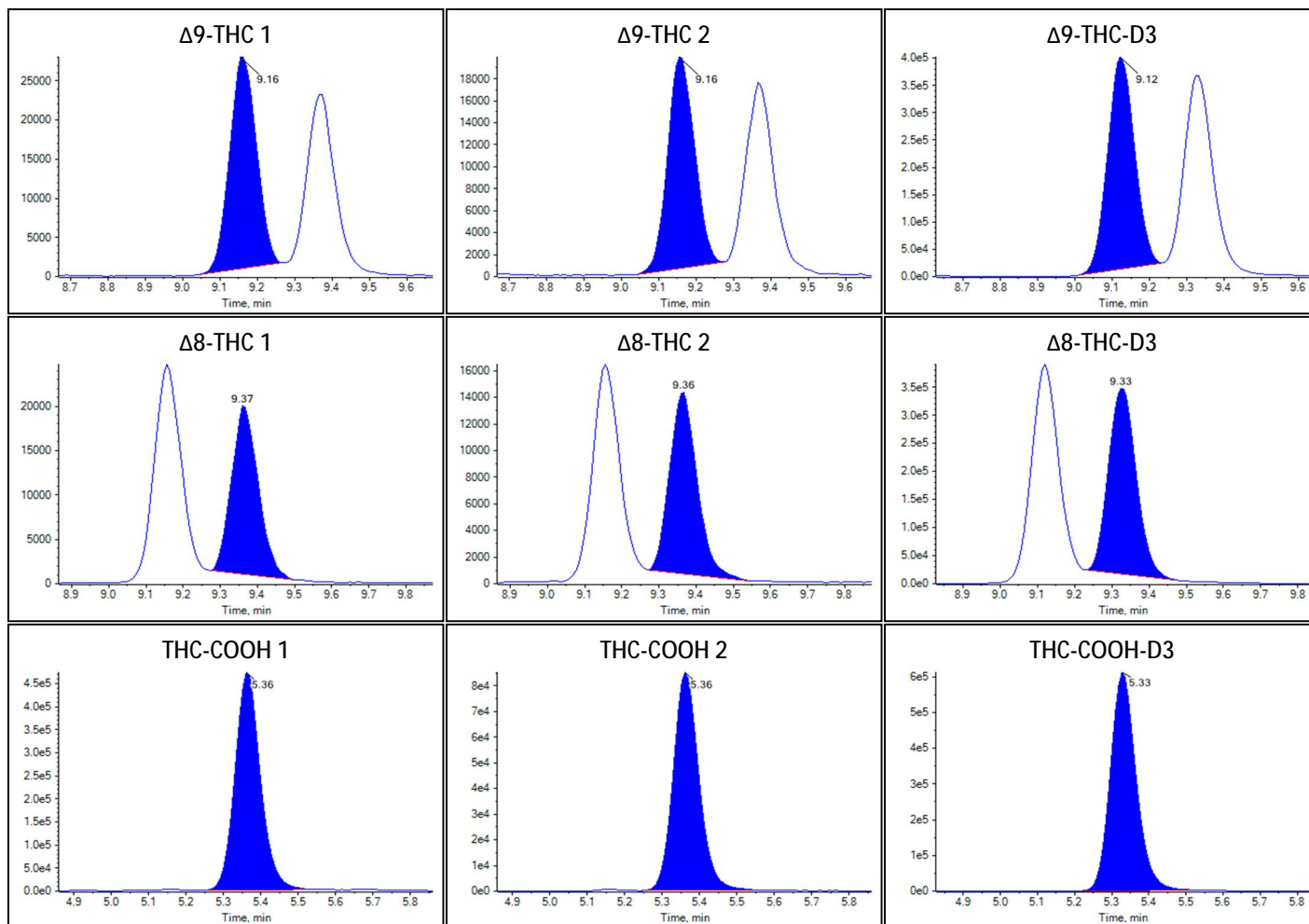
Identification Summary: Low

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.639(Pass)
Δ 9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 9-THC 2	315.1 / 123.0	1.000(Pass)	0.713(Pass)
Δ 8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ 8-THC 2	315.1 / 123.1	1.000(Pass)	0.742(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.182(Pass)

Peak Review: Low



Peak Review: Low





Sample Summary

Sample Name	Medium
Acquisition Date/Time	2022-10-07T16:58:48
Acquisition Method	THC.dam
Batch Name	Bias and precision batch.dab
Results Table	20221007 Injection Volume
Sample Type	Quality Control
File Name	20221007 Injection volume study.wiff
Position	8
Sample Comment	

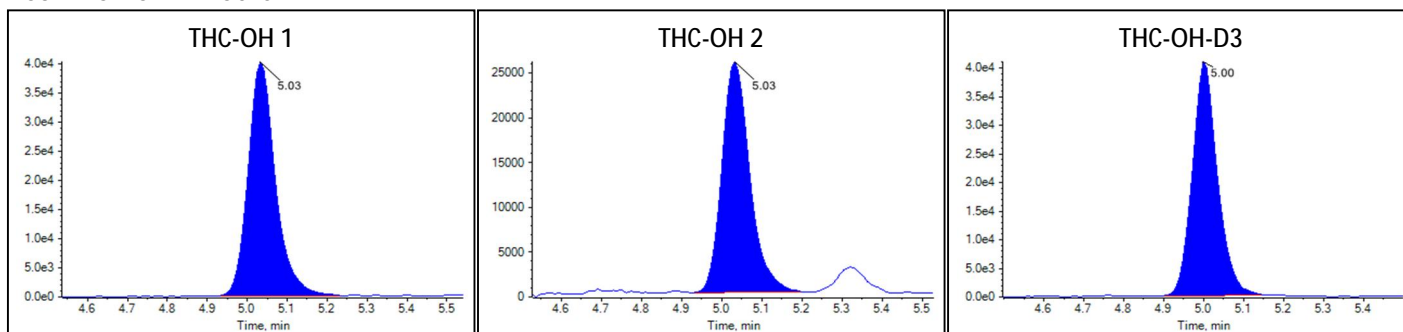
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.0674	9.329		
Δ^9 -THC	0.9978	37.697		
Δ^8 -THC	0.7970	37.492		
THC-COOH	3.9339	39.366		

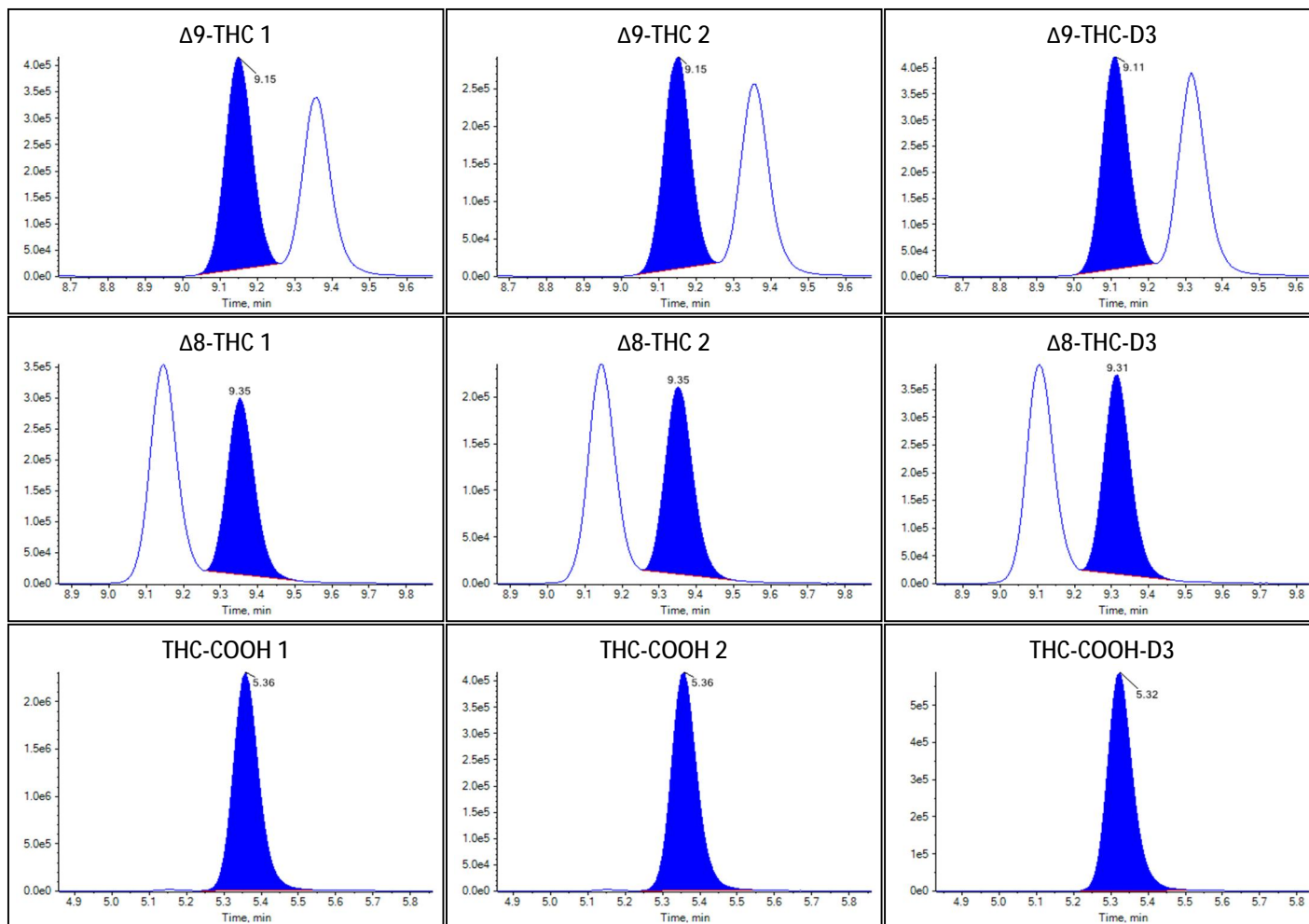
Identification Summary: Medium

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.653(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.697(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.722(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.181(Pass)

Peak Review: Medium



Peak Review: Medium





Sample Summary

Sample Name	High
Acquisition Date/Time	2022-10-07T17:12:53
Acquisition Method	THC.dam
Batch Name	Bias and precision batch.dab
Results Table	20221007 Injection Volume
Sample Type	Quality Control
File Name	20221007 Injection volume study.wiff
Position	9
Sample Comment	

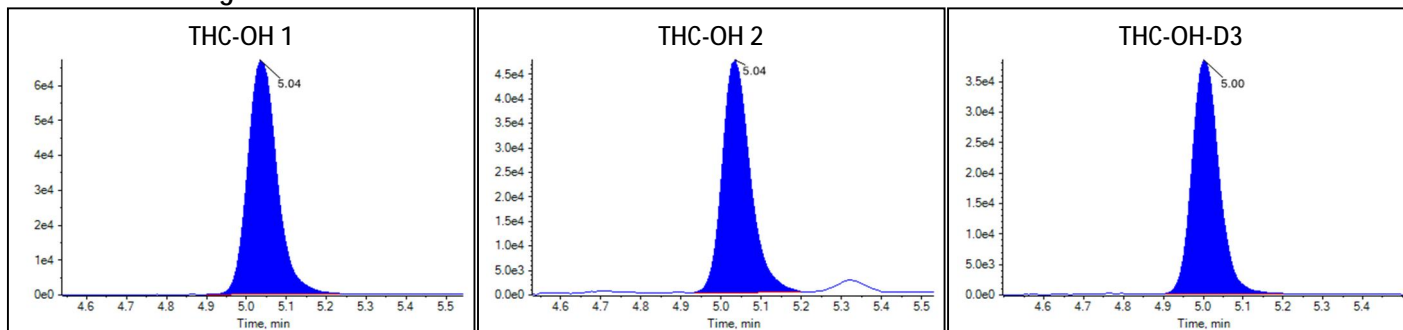
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	1.9035	16.540		
Δ^9 -THC	2.1408	84.453		
Δ^8 -THC	1.6530	88.536		
THC-COOH	7.3305	73.601		

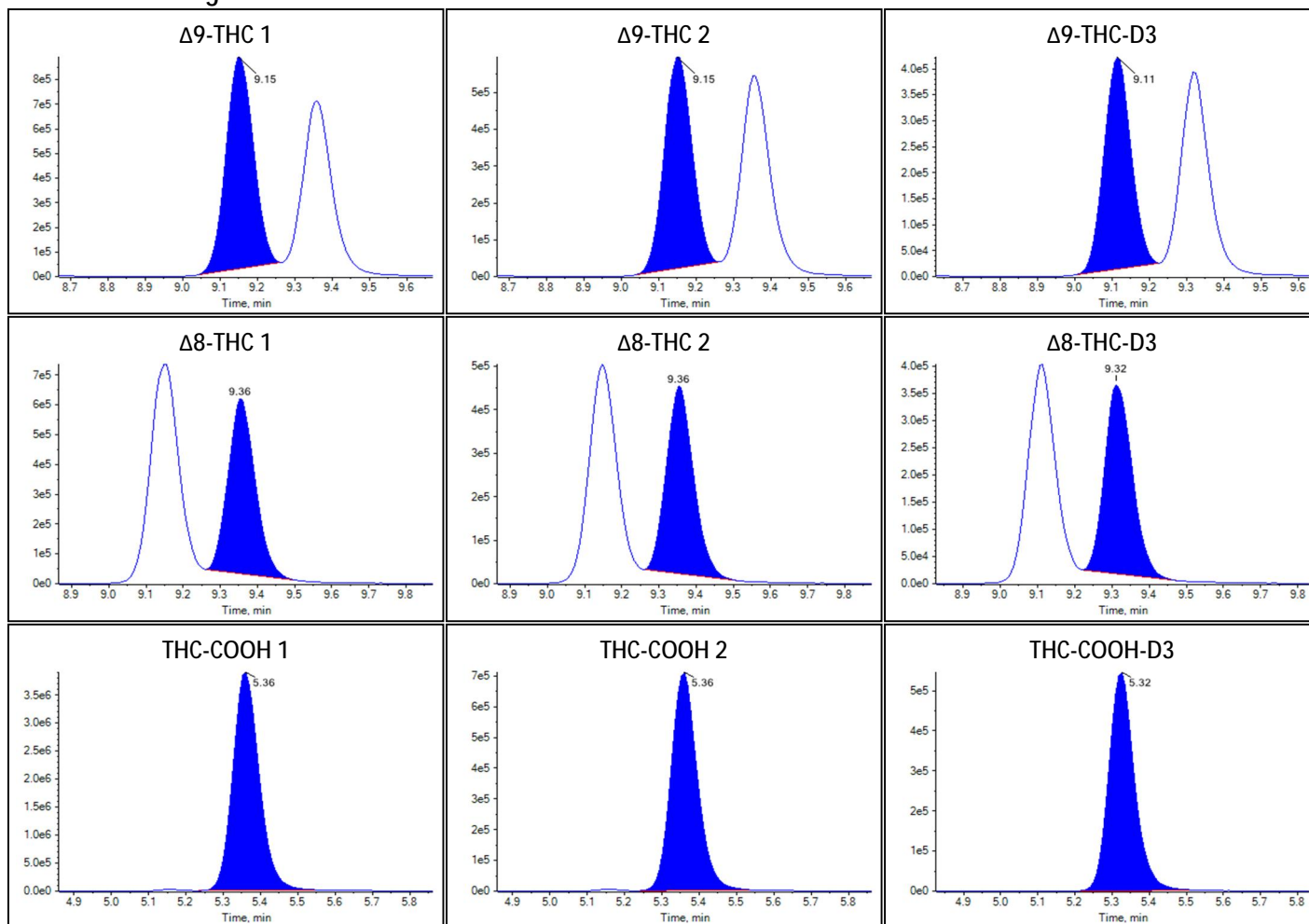
Identification Summary: High

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.674(Pass)
Δ^9 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^9 -THC 2	315.1 / 123.0	1.000(Pass)	0.679(Pass)
Δ^8 -THC 1	315.1 / 193.1	1.000(Pass)	
Δ^8 -THC 2	315.1 / 123.1	1.000(Pass)	0.737(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.181(Pass)

Peak Review: High



Peak Review: High





Sample Summary

Sample Name	Negative
Acquisition Date/Time	2022-10-07T17:26:56
Acquisition Method	THC.dam
Batch Name	Bias and precision batch.dab
Results Table	20221007 Injection Volume
Sample Type	Quality Control
File Name	20221007 Injection volume study.wiff
Position	10
Sample Comment	

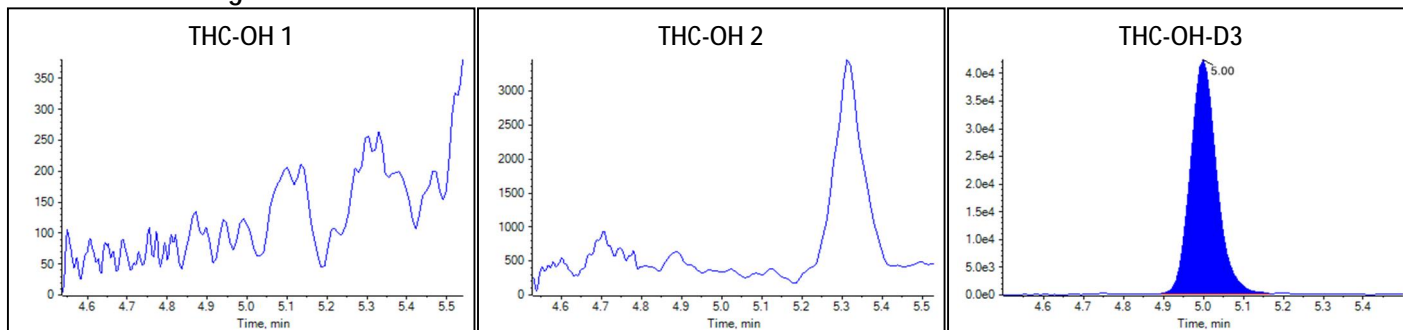
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	N/A	N/A		
Δ^9 -THC	N/A	N/A		
Δ^8 -THC	N/A	N/A		
THC-COOH	N/A	N/A		

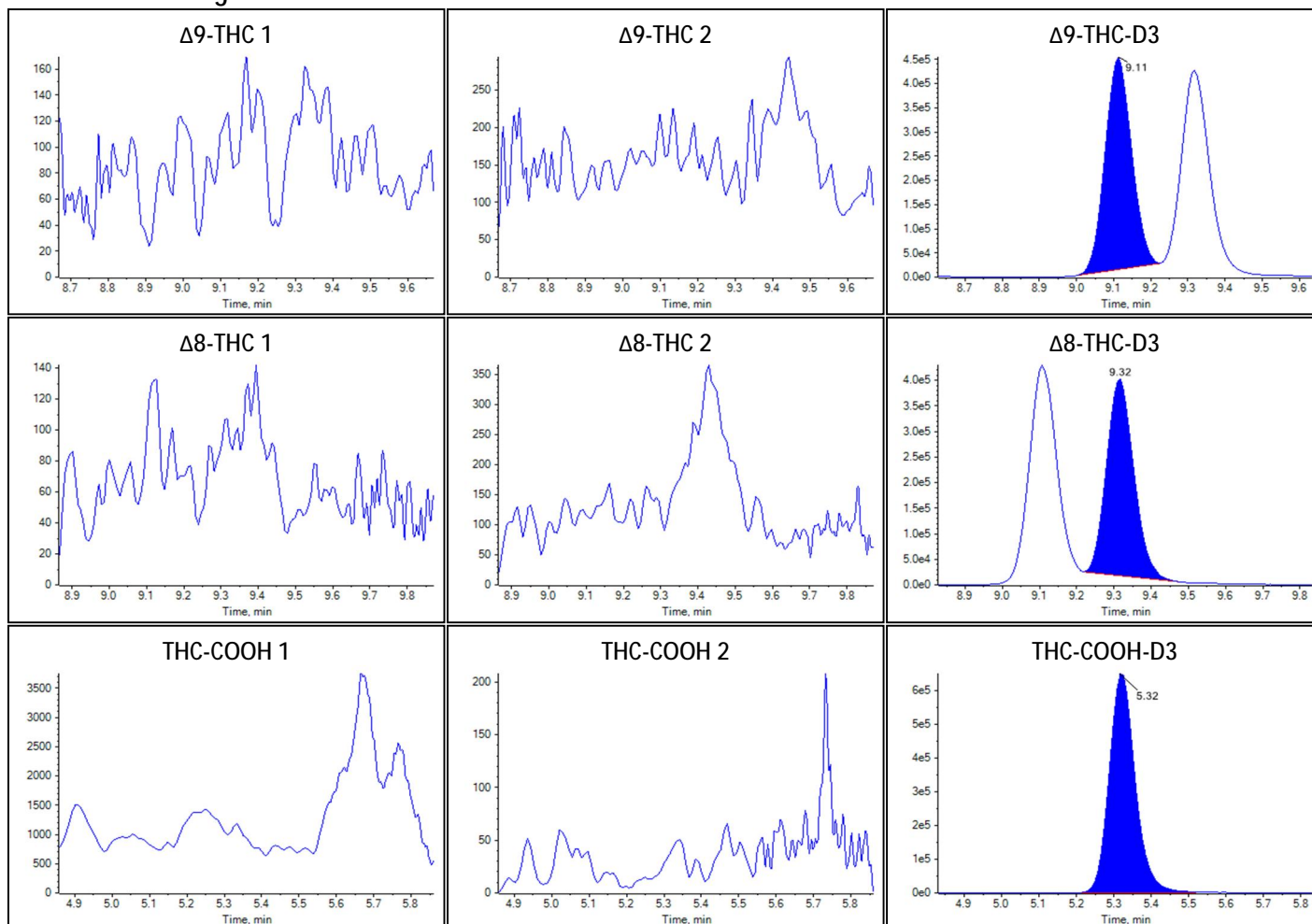
Identification Summary: Negative

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	N/A	
THC-OH 2	331.1 / 105.1	N/A	N/A
Δ^9 -THC 1	315.1 / 193.1	N/A	
Δ^9 -THC 2	315.1 / 123.0	N/A	N/A
Δ^8 -THC 1	315.1 / 193.1	N/A	
Δ^8 -THC 2	315.1 / 123.1	N/A	N/A
THC-COOH 1	343.0 / 299.1	N/A	
THC-COOH 2	343.0 / 191.0	N/A	N/A

Peak Review: Negative



Peak Review: Negative





Sample Summary

Sample Name	Standard 6 2x 10µL
Acquisition Date/Time	2022-10-07T17:41:01
Acquisition Method	THC.dam
Batch Name	Bias and precision batch.dab
Results Table	20221007 Injection Volume
Sample Type	Unknown
File Name	20221007 Injection volume study.wiff
Position	11
Sample Comment	

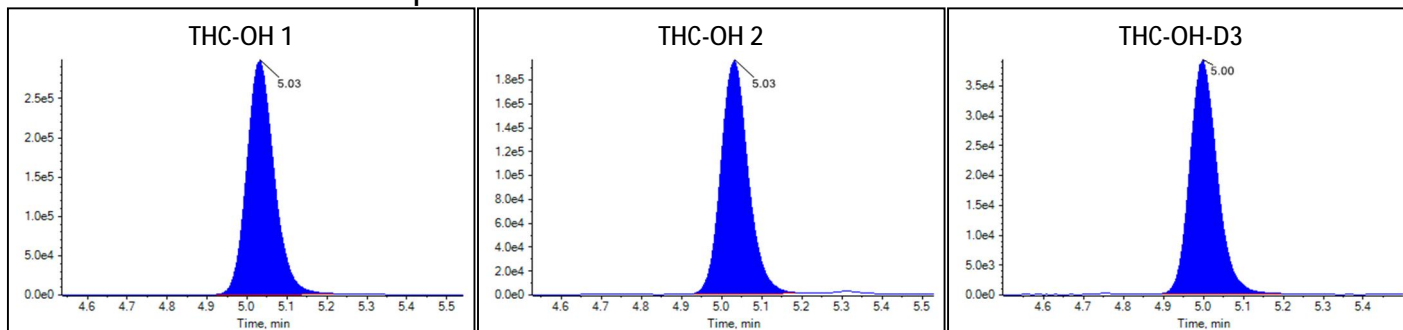
Quantitative Summary

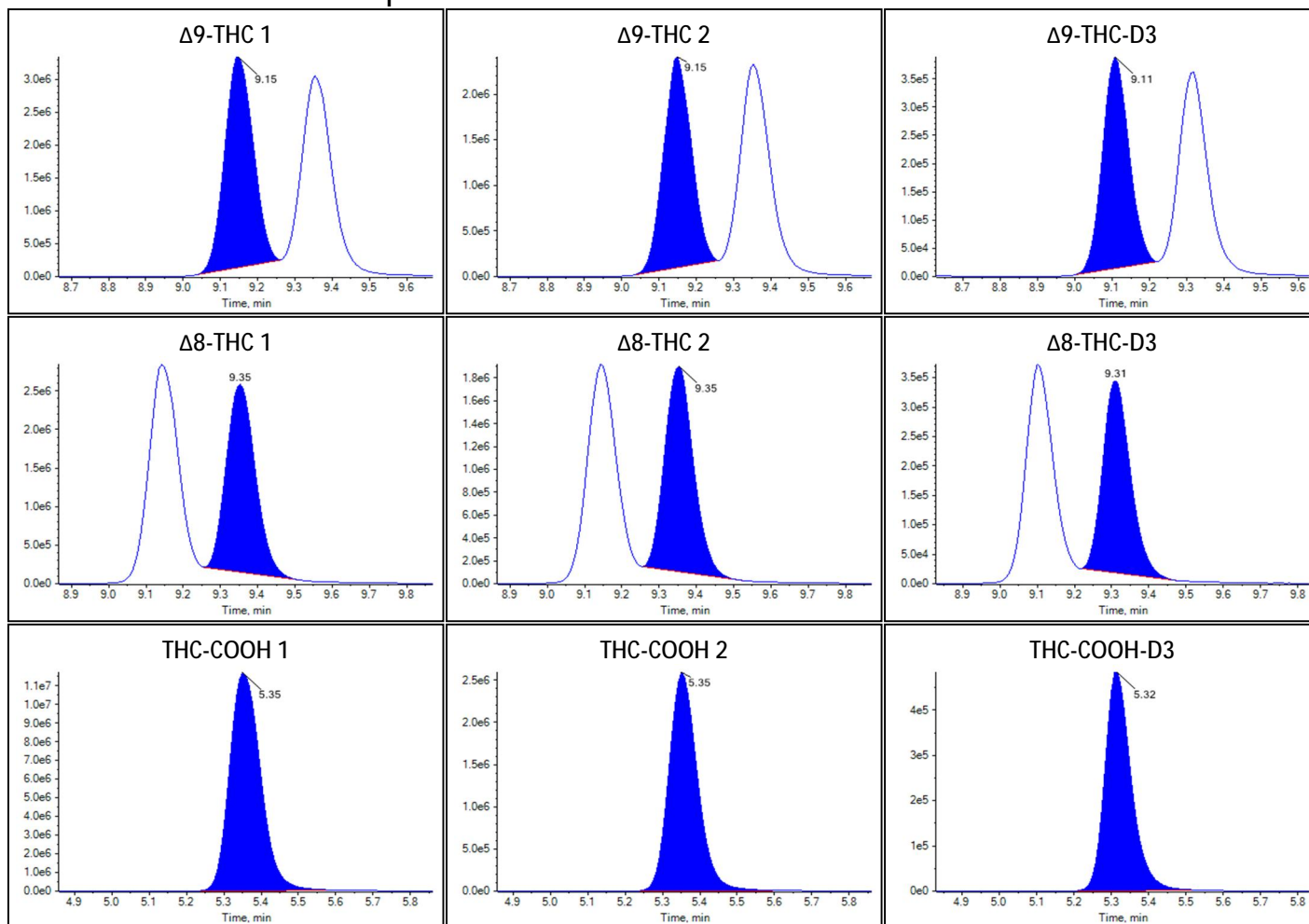
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	7.6703	66.276		
Δ9-THC	9.2406	no root		
Δ8-THC	7.8540	no root		
THC-COOH	28.4174	286.138		

Identification Summary: Standard 6 2x 10µL

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.650(Pass)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.698(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.728(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.203(Pass)

Peak Review: Standard 6 2x 10µL



Peak Review: Standard 6 2x 10 μ l



Sample Summary

Sample Name	Standard 6 3x 10µL
Acquisition Date/Time	2022-10-07T17:55:07
Acquisition Method	THC.dam
Batch Name	Bias and precision batch.dab
Results Table	20221007 Injection Volume
Sample Type	Unknown
File Name	20221007 Injection volume study.wiff
Position	12
Sample Comment	

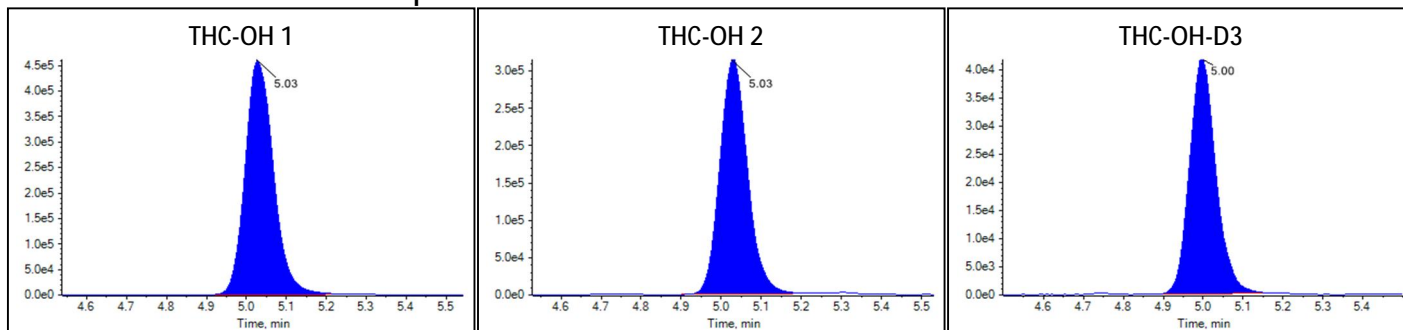
Quantitative Summary

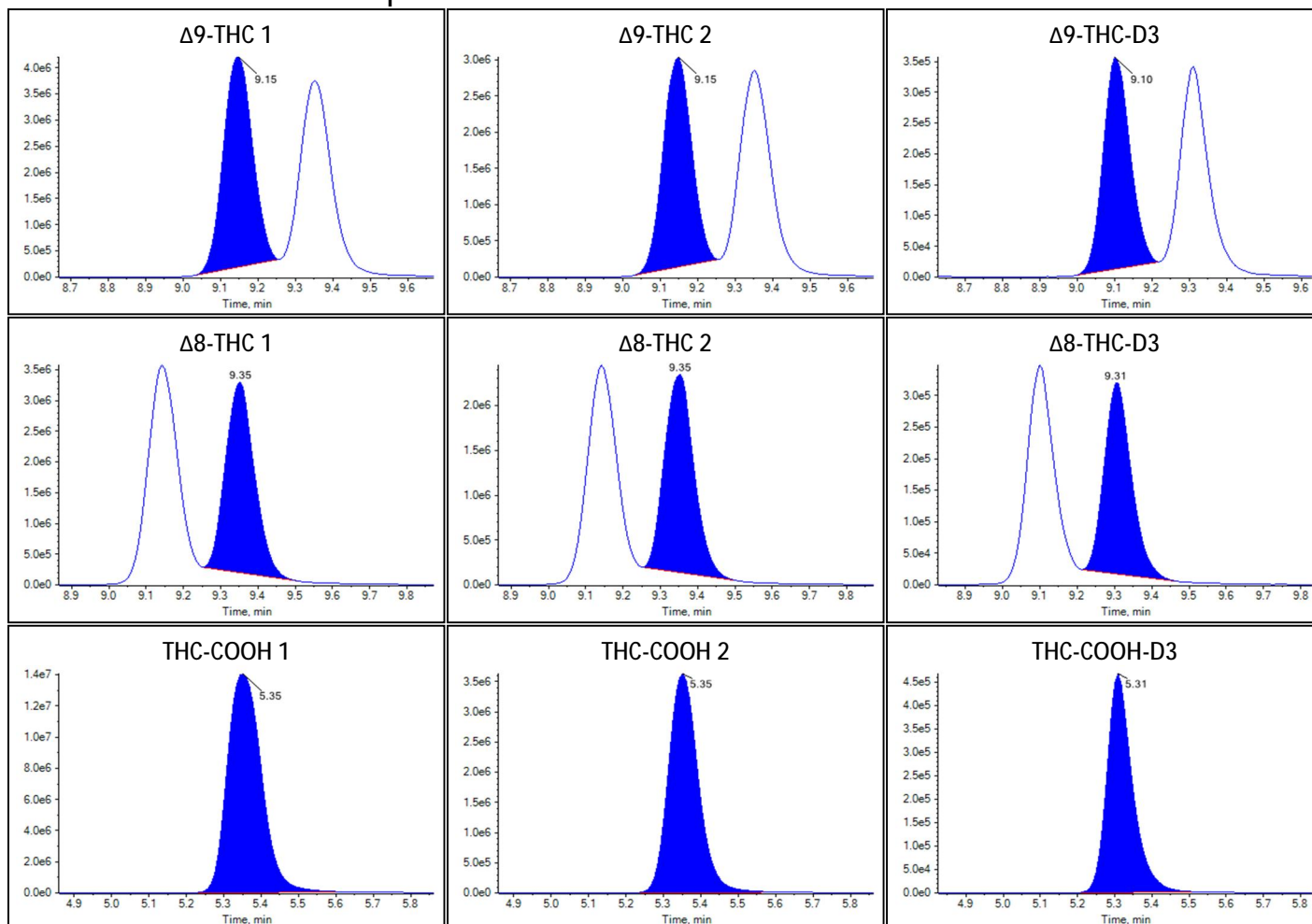
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	11.7951	101.850		
Δ9-THC	12.6531	no root		
Δ8-THC	10.8797	no root		
THC-COOH	40.2278	405.177		

Identification Summary: Standard 6 3x 10µL

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.666(Pass)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.704(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.726(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.225(Fail)

Peak Review: Standard 6 3x 10µL



Peak Review: Standard 6 3x 10 μ L



Sample Summary

Sample Name	Standard 6 4x 10µL
Acquisition Date/Time	2022-10-07T18:09:12
Acquisition Method	THC.dam
Batch Name	Bias and precision batch.dab
Results Table	20221007 Injection Volume
Sample Type	Unknown
File Name	20221007 Injection volume study.wiff
Position	13
Sample Comment	

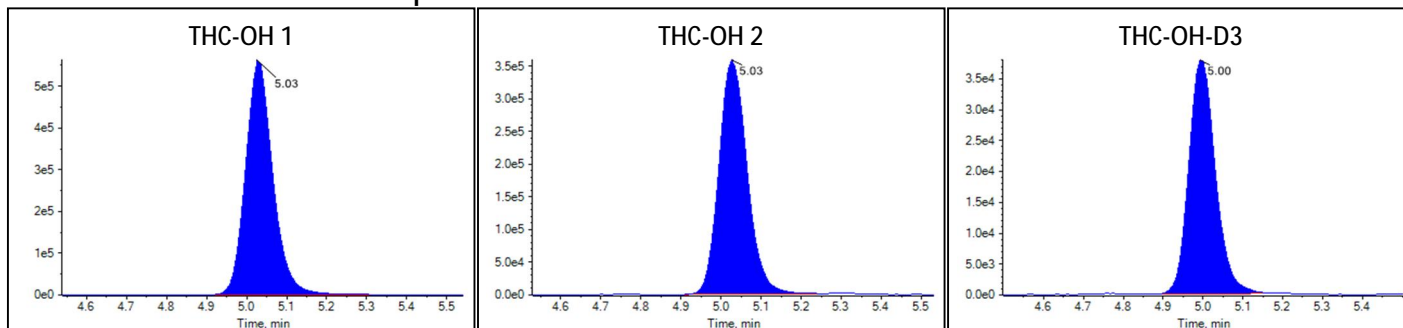
Quantitative Summary

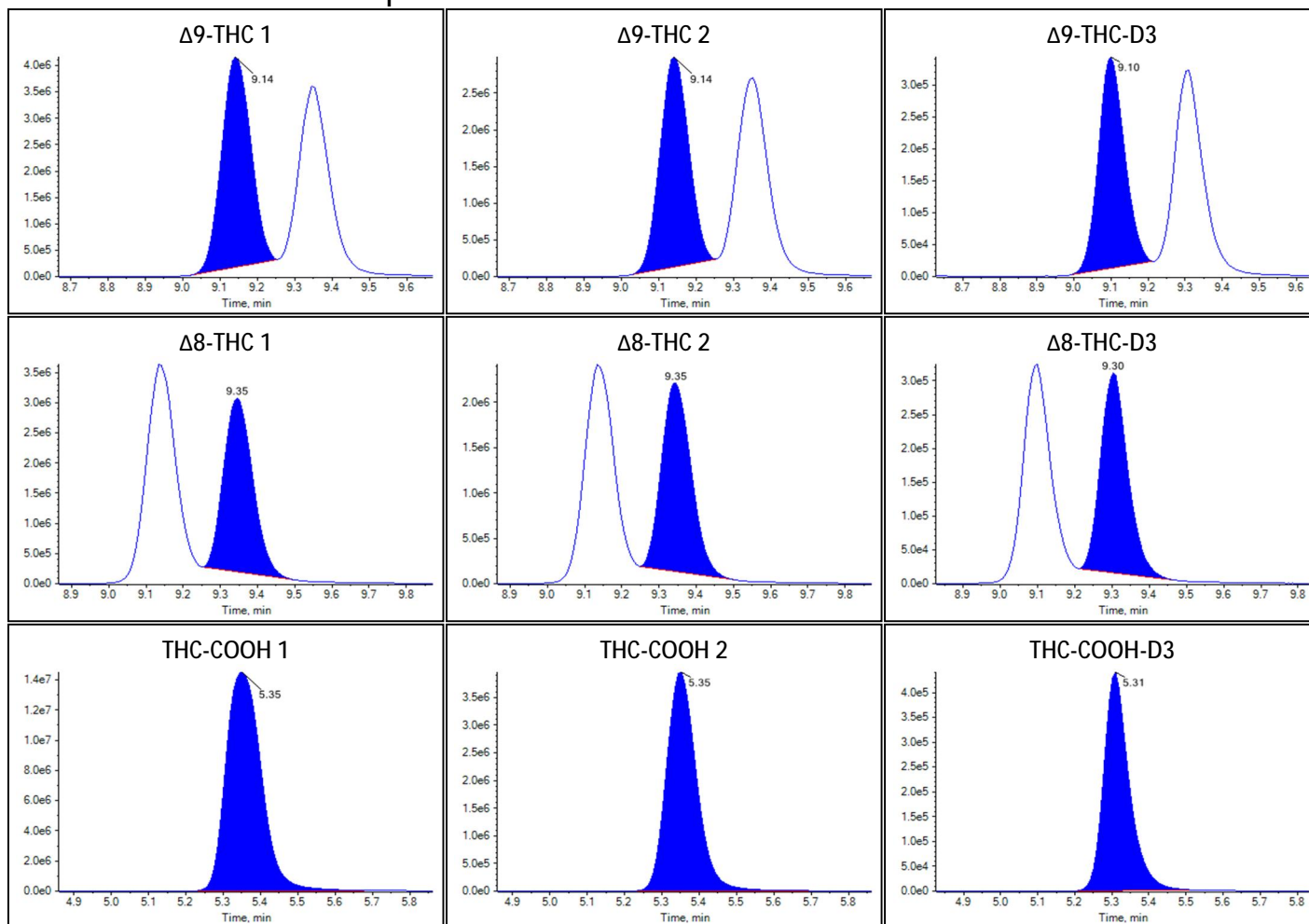
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	15.0476	129.902		
Δ9-THC	13.3787	no root		
Δ8-THC	10.4770	no root		
THC-COOH	45.7065	460.398		

Identification Summary: Standard 6 4x 10µL

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.659(Pass)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.705(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.730(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.231(Fail)

Peak Review: Standard 6 4x 10µL



Peak Review: Standard 6 4x 10 μ L



Sample Summary

Sample Name	Standard 6 5x 10µL
Acquisition Date/Time	2022-10-07T18:23:17
Acquisition Method	THC.dam
Batch Name	Bias and precision batch.dab
Results Table	20221007 Injection Volume
Sample Type	Unknown
File Name	20221007 Injection volume study.wiff
Position	14
Sample Comment	

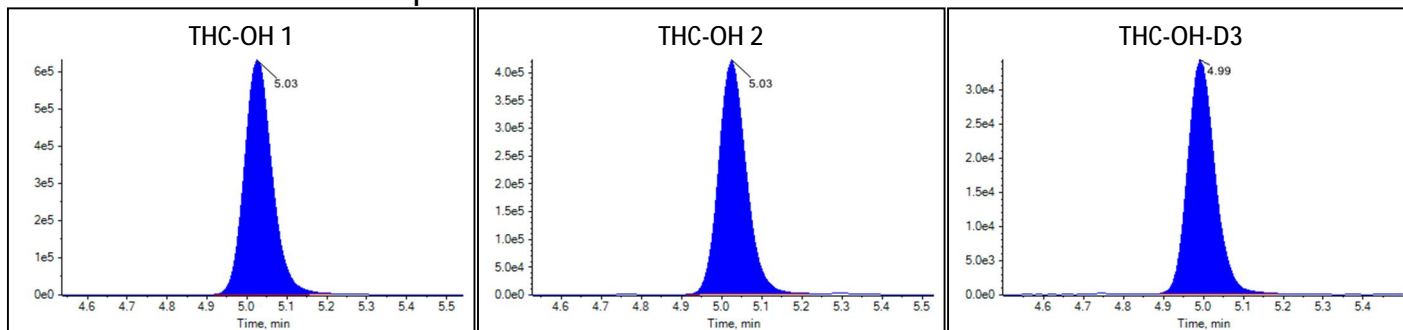
Quantitative Summary

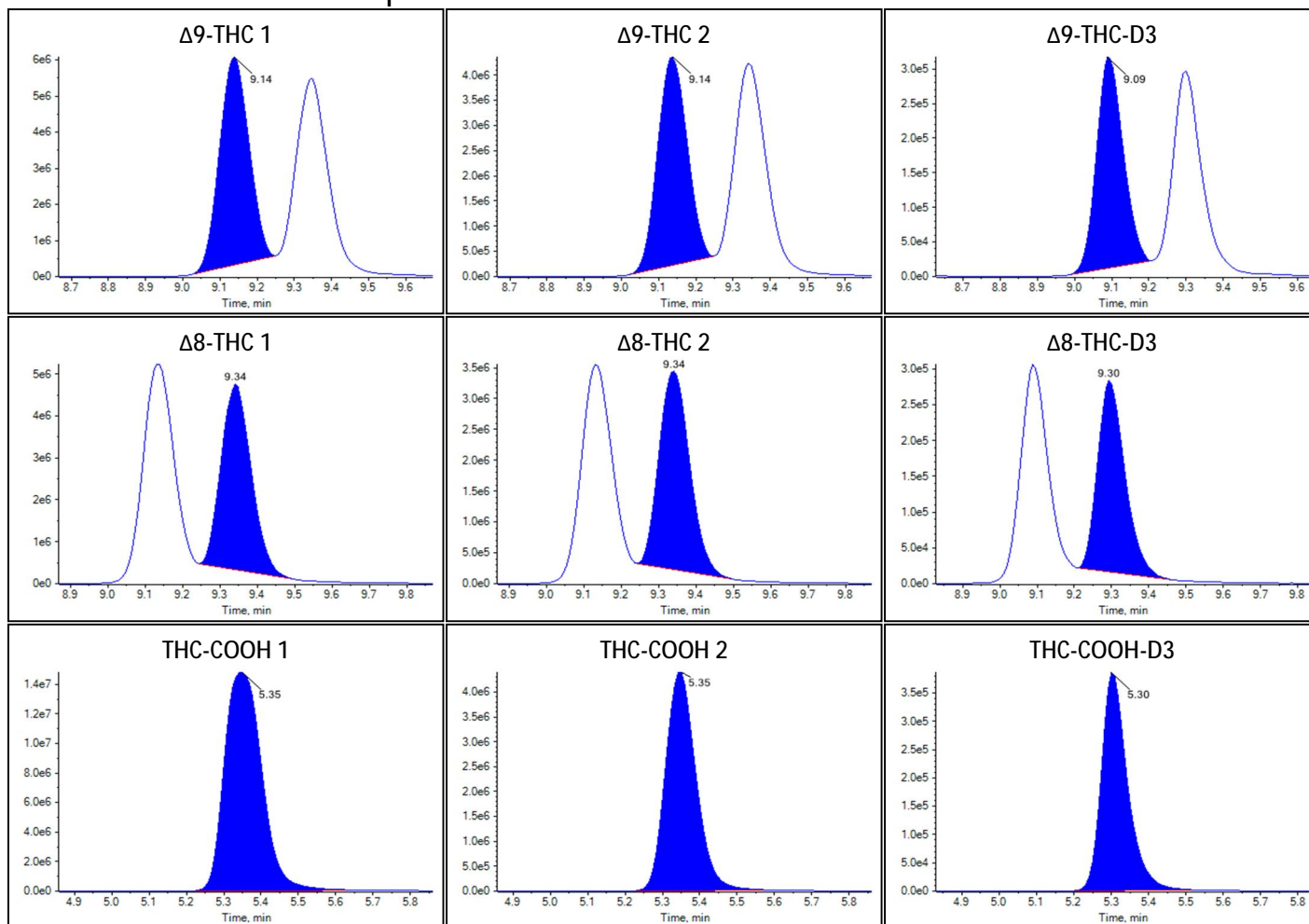
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	18.8591	162.774		
Δ9-THC	20.7957	no root		
Δ8-THC	18.1778	no root		
THC-COOH	55.4343	558.446		

Identification Summary: Standard 6 5x 10µL

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.657(Pass)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.720(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.739(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.241(Fail)

Peak Review: Standard 6 5x 10µL



Peak Review: Standard 6 5x 10 μ L



Sample Summary

Sample Name	Standard 6 6x 10µL
Acquisition Date/Time	2022-10-07T18:37:23
Acquisition Method	THC.dam
Batch Name	Bias and precision batch.dab
Results Table	20221007 Injection Volume
Sample Type	Unknown
File Name	20221007 Injection volume study.wiff
Position	15
Sample Comment	

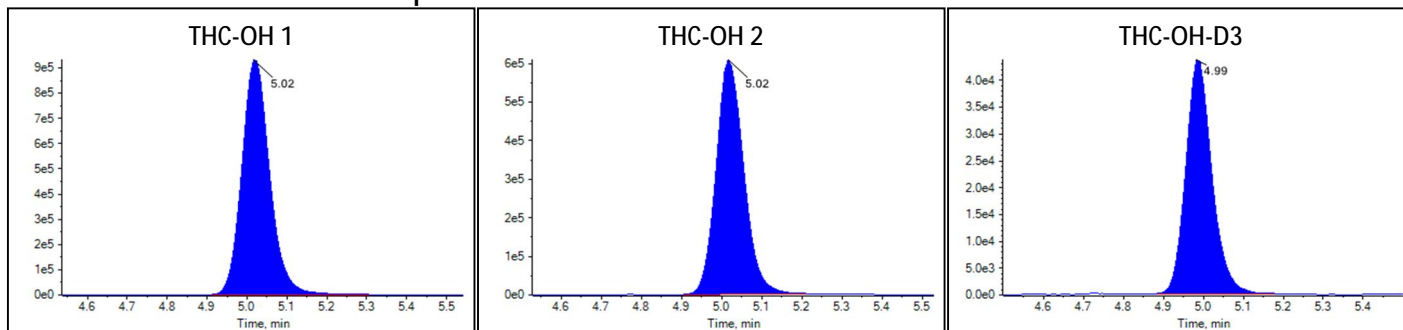
Quantitative Summary

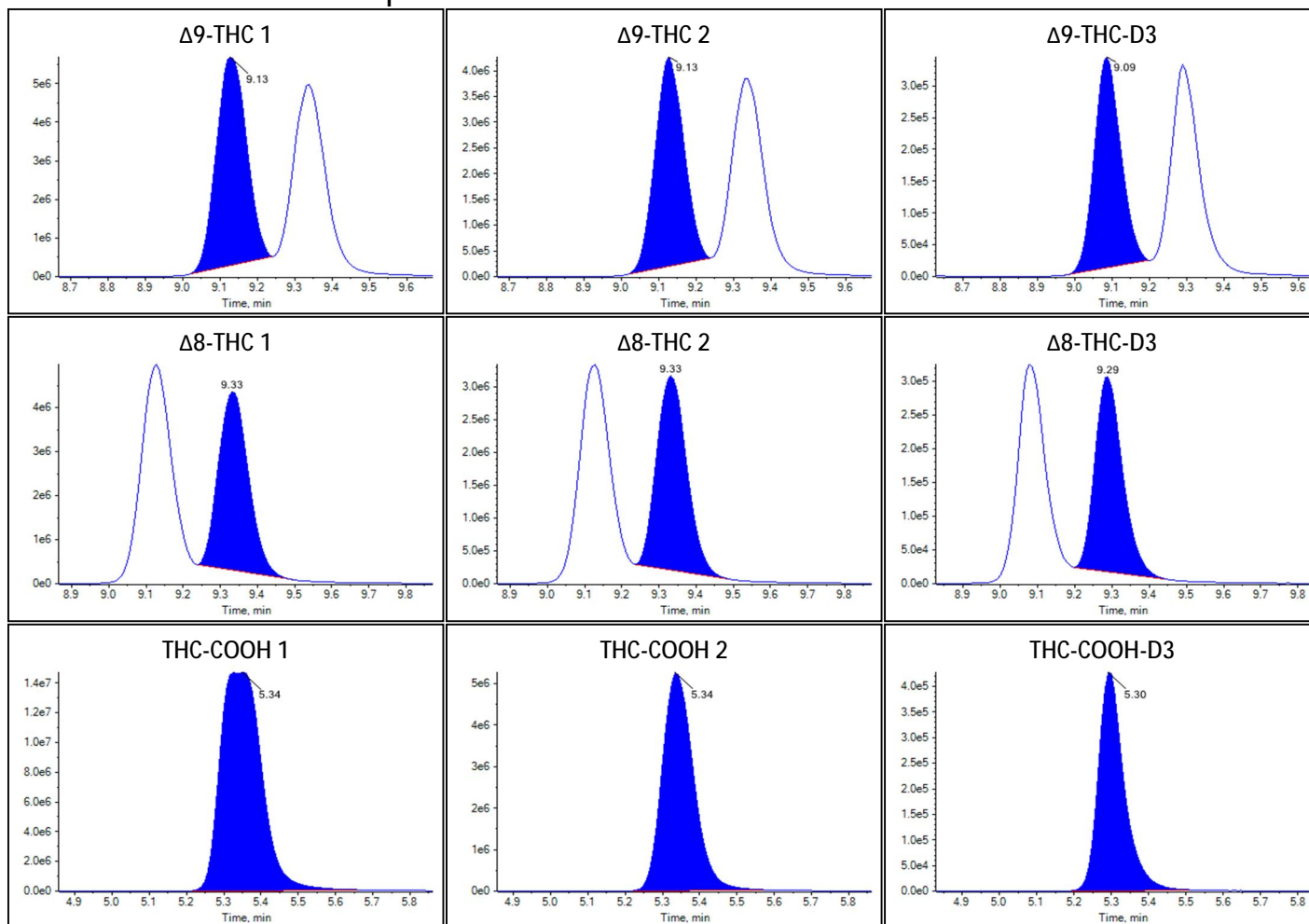
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	22.6769	195.701		
Δ9-THC	18.6812	no root		
Δ8-THC	15.2481	no root		
THC-COOH	55.8214	562.348		

Identification Summary: Standard 6 6x 10µL

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.644(Pass)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.713(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.734(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.266(Fail)

Peak Review: Standard 6 6x 10µL



Peak Review: Standard 6 6x 10 μ L



Sample Summary

Sample Name	Standard 6 7x 10µL
Acquisition Date/Time	2022-10-07T18:51:28
Acquisition Method	THC.dam
Batch Name	Bias and precision batch.dab
Results Table	20221007 Injection Volume
Sample Type	Unknown
File Name	20221007 Injection volume study.wiff
Position	16
Sample Comment	

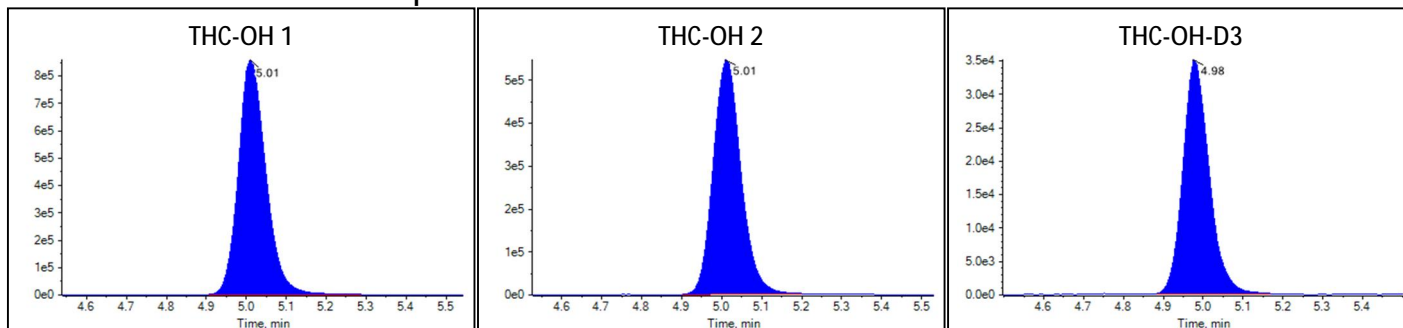
Quantitative Summary

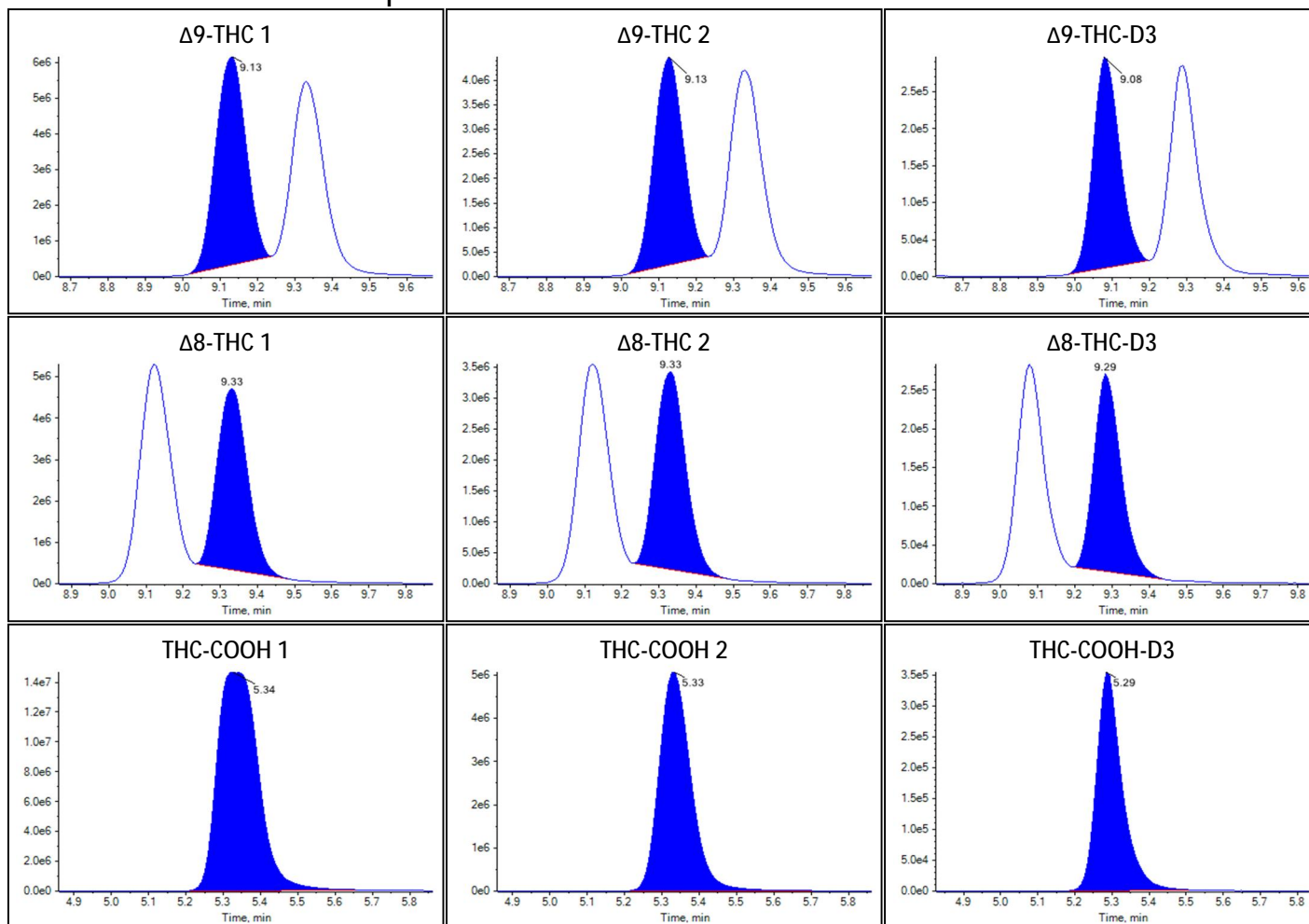
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	25.7639	222.325		
Δ9-THC	23.3700	no root		
Δ8-THC	19.2878	no root		
THC-COOH	66.8880	673.889		

Identification Summary: Standard 6 7x 10µL

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.641(Pass)
Δ9-THC 1	315.1 / 193.1	1.010(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.701(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.727(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.263(Fail)

Peak Review: Standard 6 7x 10µL



Peak Review: Standard 6 7x 10 μ L



Sample Summary

Sample Name	Standard 6 8x 10µL
Acquisition Date/Time	2022-10-07T19:05:33
Acquisition Method	THC.dam
Batch Name	Bias and precision batch.dab
Results Table	20221007 Injection Volume
Sample Type	Unknown
File Name	20221007 Injection volume study.wiff
Position	17
Sample Comment	

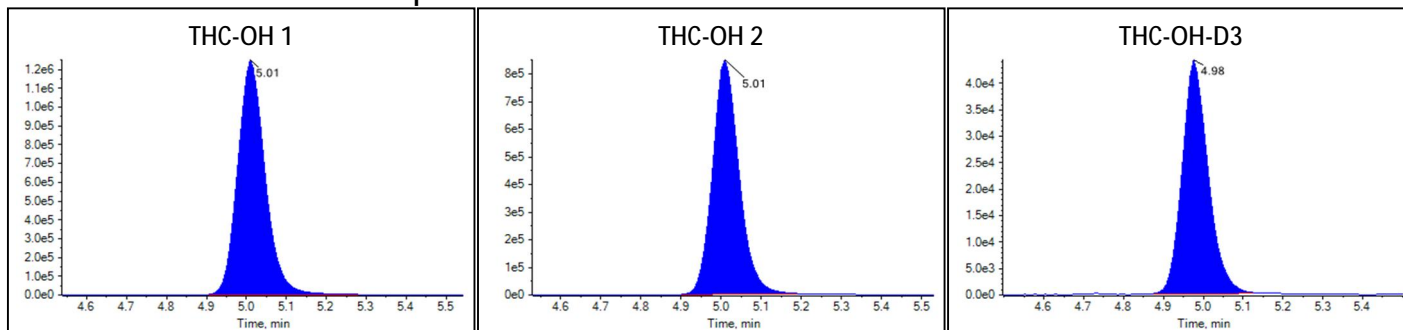
Quantitative Summary

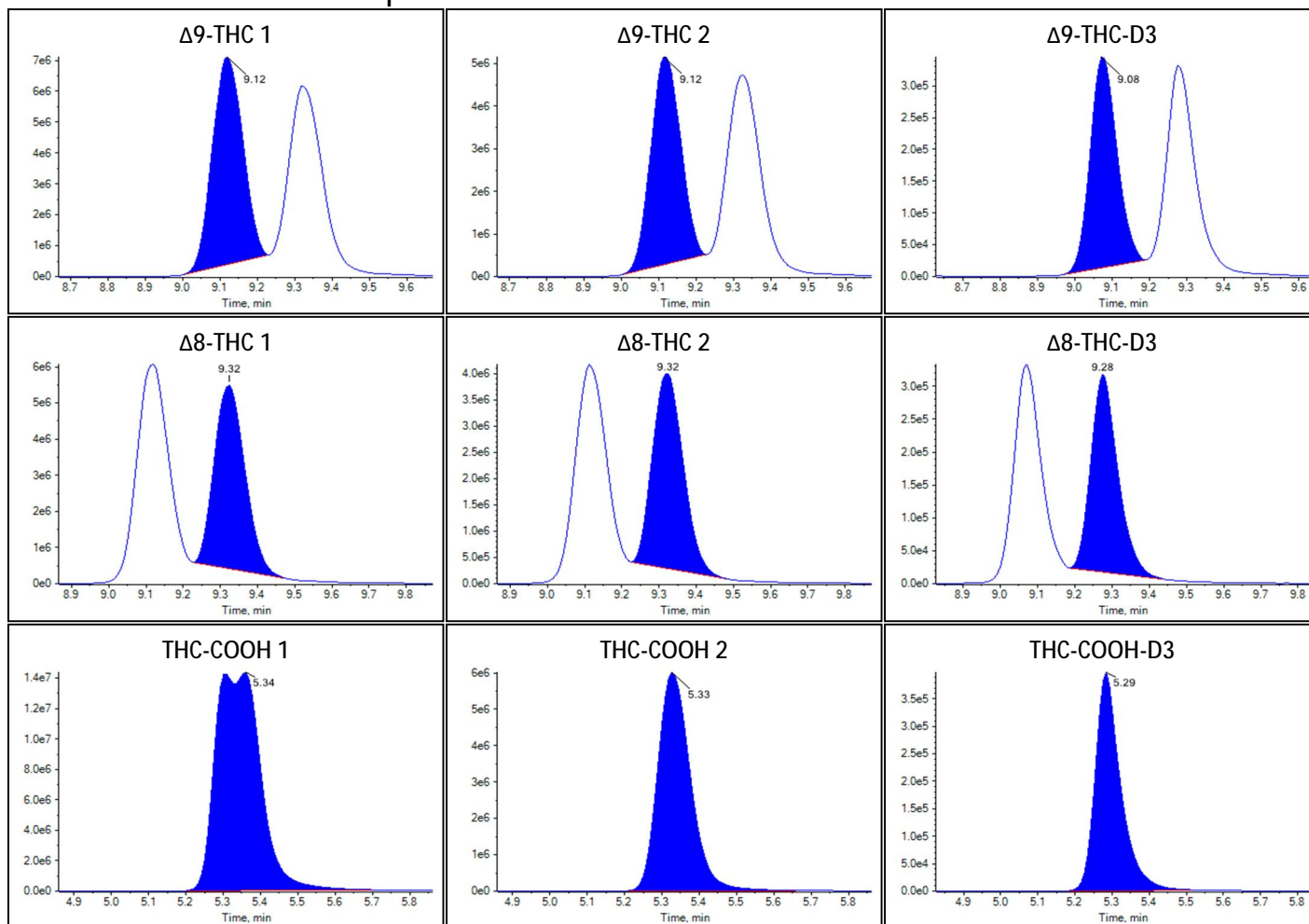
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	29.6987	256.261		
Δ9-THC	22.9850	no root		
Δ8-THC	19.2642	no root		
THC-COOH	64.8527	653.376		

Identification Summary: Standard 6 8x 10µL

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.657(Pass)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.712(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.733(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.298(Fail)

Peak Review: Standard 6 8x 10µL



Peak Review: Standard 6 8x 10 μ L



Sample Summary

Sample Name	Standard 6 9x 10µL
Acquisition Date/Time	2022-10-07T19:19:39
Acquisition Method	THC.dam
Batch Name	Bias and precision batch.dab
Results Table	20221007 Injection Volume
Sample Type	Unknown
File Name	20221007 Injection volume study.wiff
Position	18
Sample Comment	

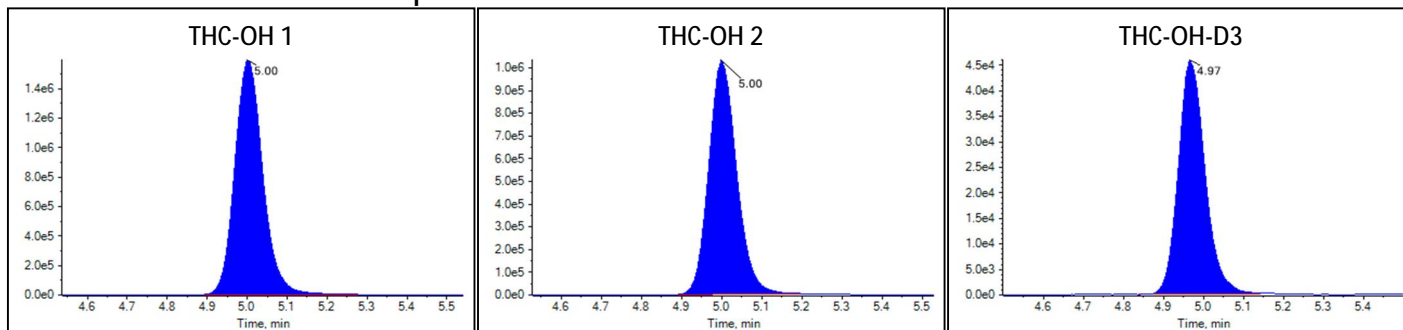
Quantitative Summary

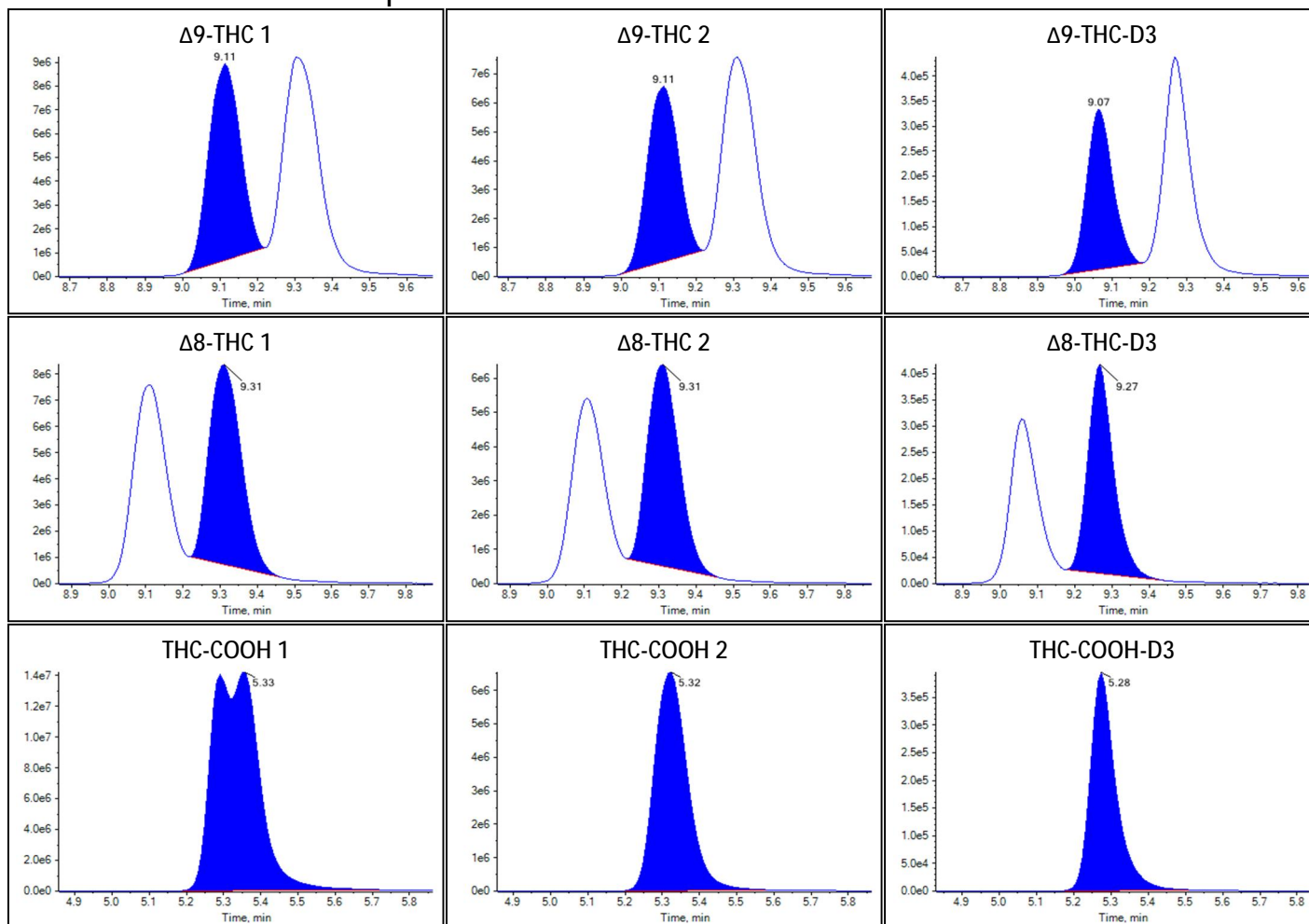
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	36.5643	315.474		
Δ9-THC	30.8155	no root		
Δ8-THC	24.2558	no root		
THC-COOH	67.3508	678.554		

Identification Summary: Standard 6 9x 10µL

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.640(Pass)
Δ9-THC 1	315.1 / 193.1	1.010(Pass)	
Δ9-THC 2	315.1 / 123.0	1.010(Pass)	0.729(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.758(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.321(Fail)

Peak Review: Standard 6 9x 10µL



Peak Review: Standard 6 9x 10 μ L



Sample Summary

Sample Name	Standard 6 10x 10µL
Acquisition Date/Time	2022-10-07T19:33:44
Acquisition Method	THC.dam
Batch Name	Bias and precision batch.dab
Results Table	20221007 Injection Volume
Sample Type	Unknown
File Name	20221007 Injection volume study.wiff
Position	19
Sample Comment	

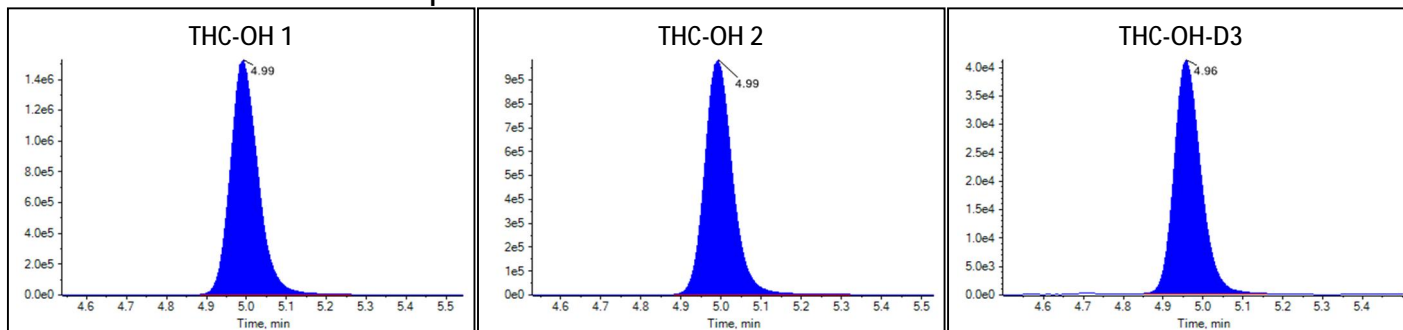
Quantitative Summary

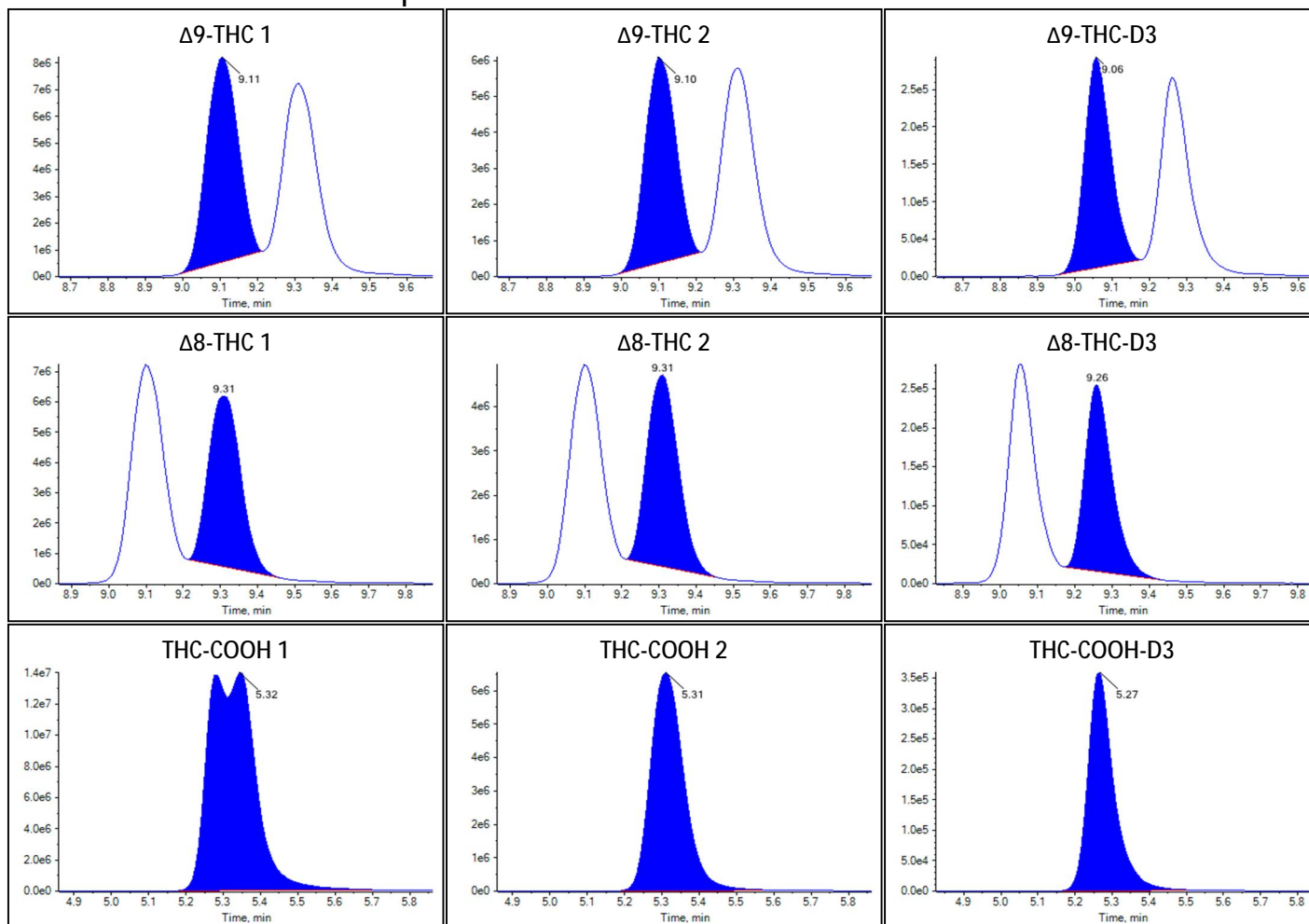
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	38.0983	328.703		
Δ9-THC	32.5490	no root		
Δ8-THC	28.0700	no root		
THC-COOH	71.2667	718.023		

Identification Summary: Standard 6 10x 10µL

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.647(Pass)
Δ9-THC 1	315.1 / 193.1	1.010(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.727(Pass)
Δ8-THC 1	315.1 / 193.1	1.010(Pass)	
Δ8-THC 2	315.1 / 123.1	1.010(Pass)	0.745(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.326(Fail)

Peak Review: Standard 6 10x 10µL



Peak Review: Standard 6 10x 10 μ L



Sample Summary

Sample Name	Standard 6 2x 1µL
Acquisition Date/Time	2022-10-07T19:47:50
Acquisition Method	THC.dam
Batch Name	Bias and precision batch.dab
Results Table	20221007 Injection Volume
Sample Type	Unknown
File Name	20221007 Injection volume study.wiff
Position	11
Sample Comment	

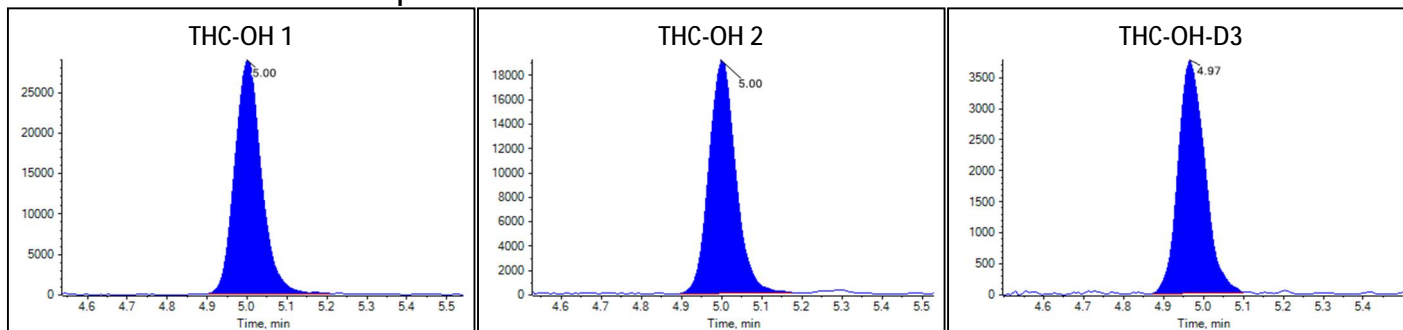
Quantitative Summary

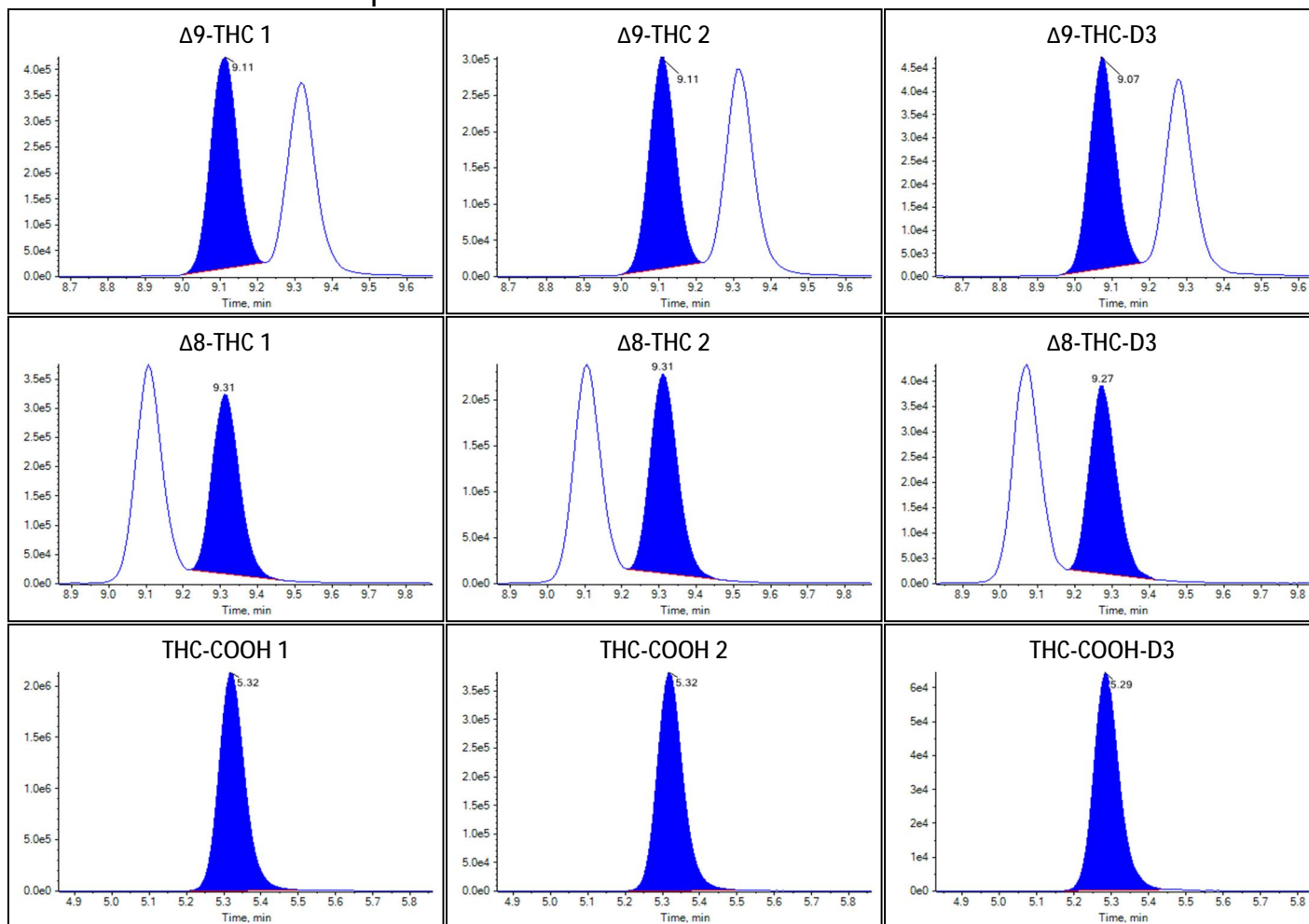
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	7.6740	66.308		
Δ9-THC	9.3847	no root		
Δ8-THC	8.3559	no root		
THC-COOH	33.6393	338.771		

Identification Summary: Standard 6 2x 1µL

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.661(Pass)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.693(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.711(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.179(Pass)

Peak Review: Standard 6 2x 1µL



Peak Review: Standard 6 2x 1 μ L



Sample Summary

Sample Name	Standard 6 3x 1µL
Acquisition Date/Time	2022-10-07T20:01:52
Acquisition Method	THC.dam
Batch Name	Bias and precision batch.dab
Results Table	20221007 Injection Volume
Sample Type	Unknown
File Name	20221007 Injection volume study.wiff
Position	12
Sample Comment	

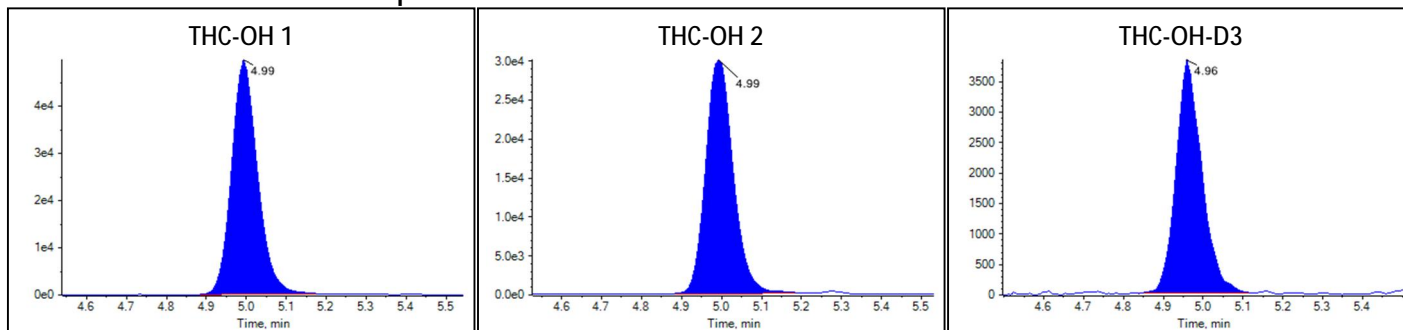
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	12.9078	111.447		
Δ9-THC	13.4600	no root		
Δ8-THC	11.4275	no root		
THC-COOH	51.2239	516.009		

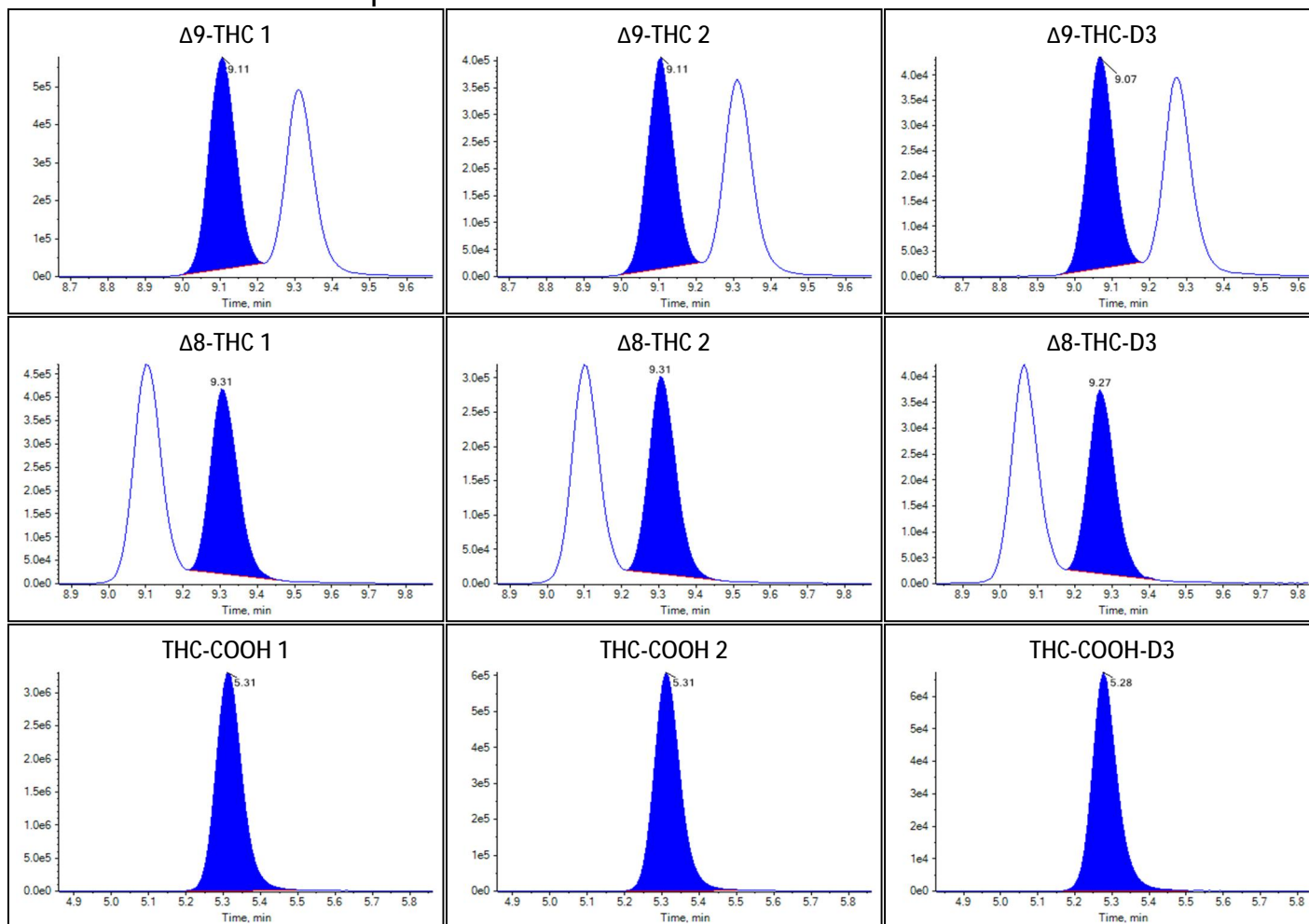
Identification Summary: Standard 6 3x 1µL

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.646(Pass)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.680(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.722(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.182(Pass)

Peak Review: Standard 6 3x 1µL



Peak Review: Standard 6 3x 1µL





Sample Summary

Sample Name	Standard 6 4x 1µL
Acquisition Date/Time	2022-10-07T20:15:57
Acquisition Method	THC.dam
Batch Name	Bias and precision batch.dab
Results Table	20221007 Injection Volume
Sample Type	Unknown
File Name	20221007 Injection volume study.wiff
Position	13
Sample Comment	

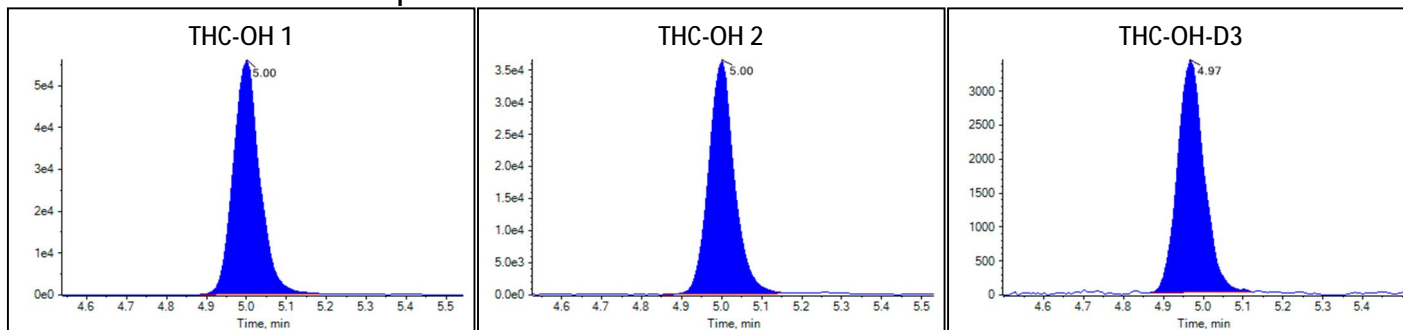
Quantitative Summary

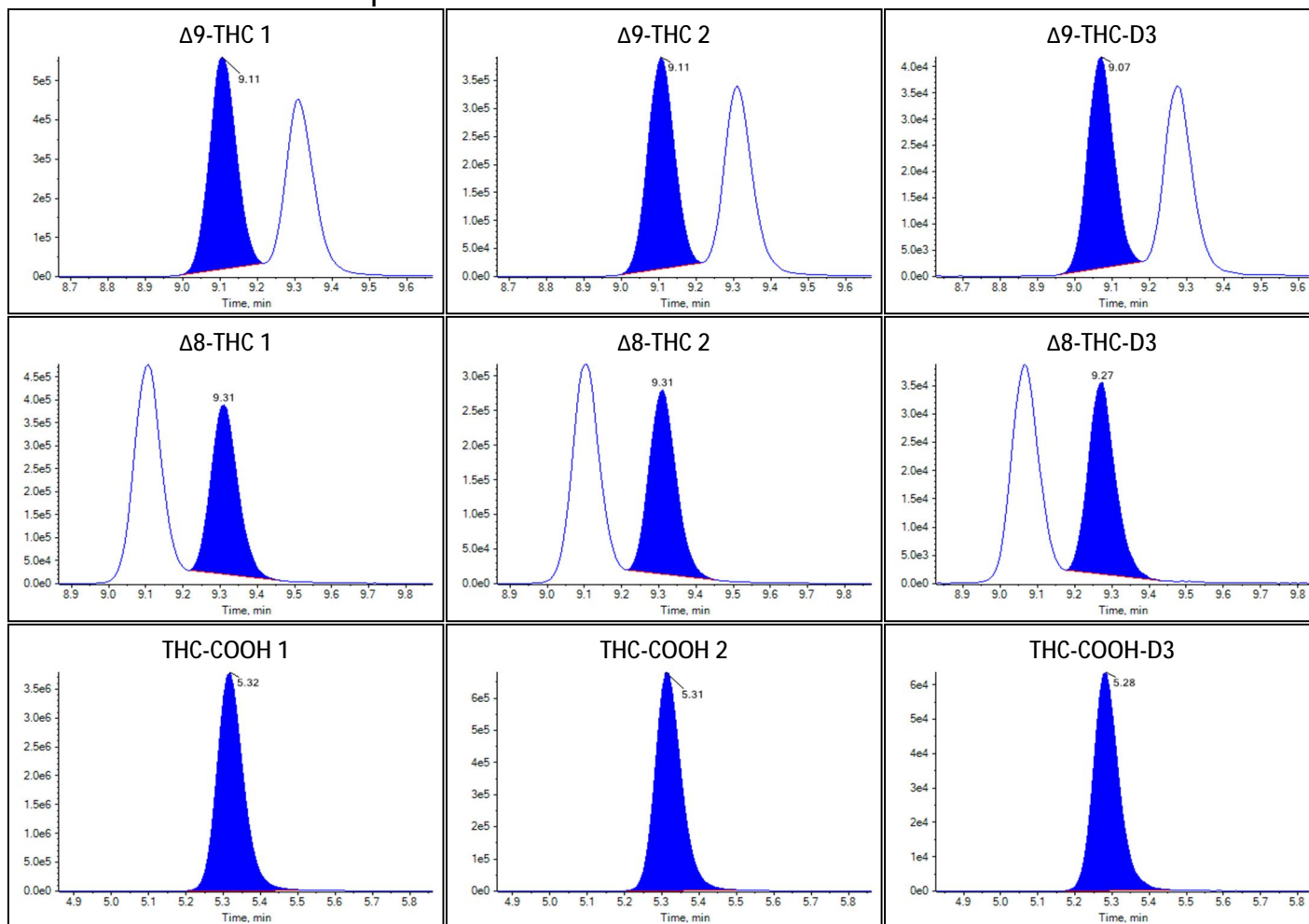
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	16.1297	139.234		
Δ9-THC	13.9021	no root		
Δ8-THC	10.8820	no root		
THC-COOH	61.4597	619.176		

Identification Summary: Standard 6 4x 1µL

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.632(Pass)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.692(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.725(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.179(Pass)

Peak Review: Standard 6 4x 1µL



Peak Review: Standard 6 4x 1 μ L



Sample Summary

Sample Name	Standard 6 5x 1µL
Acquisition Date/Time	2022-10-07T20:30:03
Acquisition Method	THC.dam
Batch Name	Bias and precision batch.dab
Results Table	20221007 Injection Volume
Sample Type	Unknown
File Name	20221007 Injection volume study.wiff
Position	14
Sample Comment	

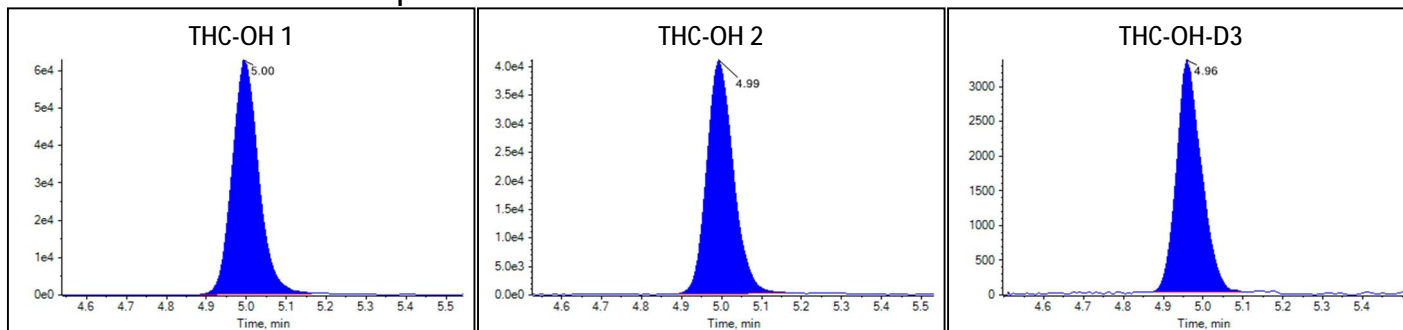
Quantitative Summary

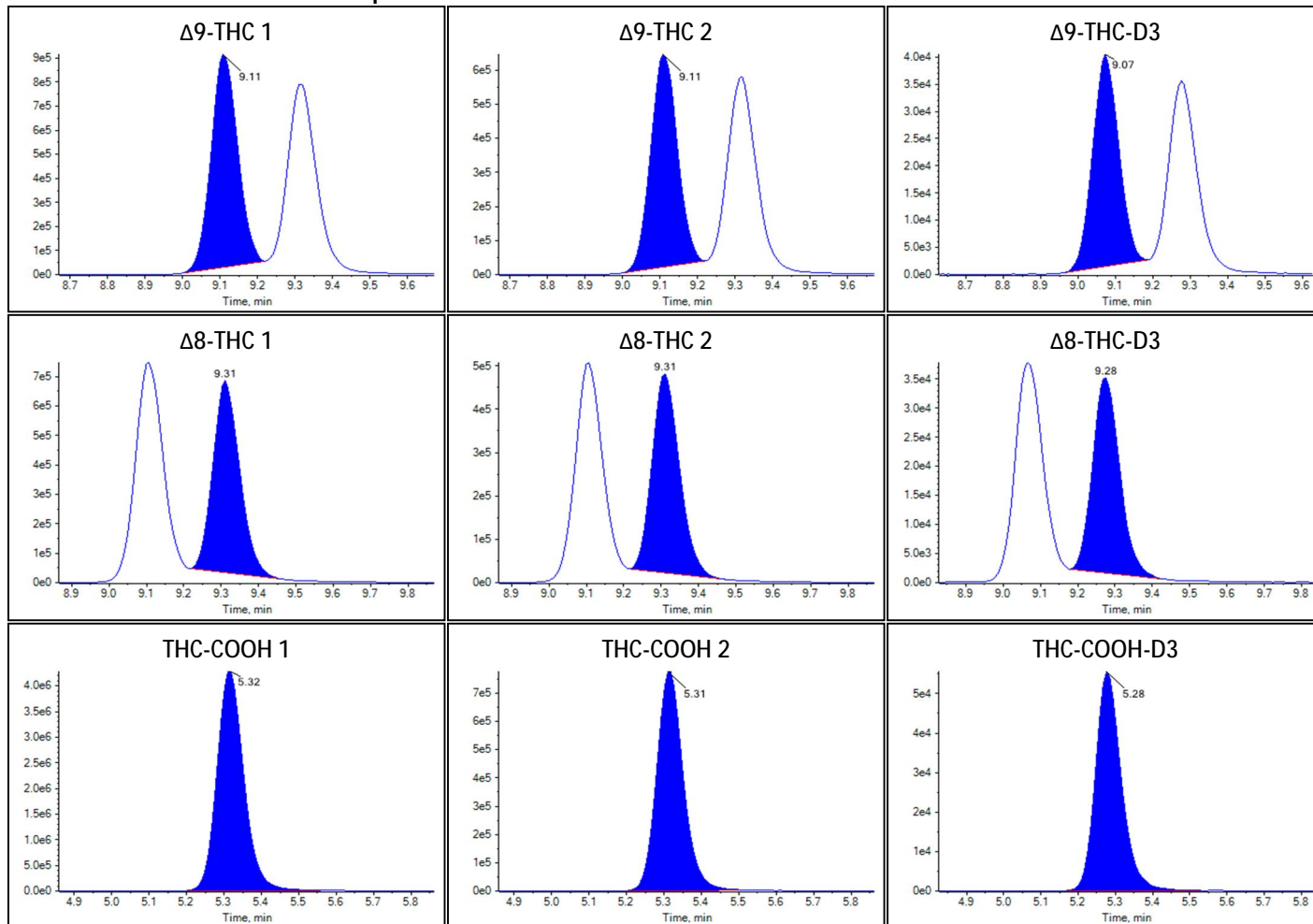
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	19.7408	170.378		
Δ9-THC	23.1590	no root		
Δ8-THC	19.1701	no root		
THC-COOH	79.8167	804.200		

Identification Summary: Standard 6 5x 1µL

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.657(Pass)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.709(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.718(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.180(Pass)

Peak Review: Standard 6 5x 1µL



Peak Review: Standard 6 5x 1 μ L



Sample Summary

Sample Name	Standard 6 6x 1µL
Acquisition Date/Time	2022-10-07T20:44:05
Acquisition Method	THC.dam
Batch Name	Bias and precision batch.dab
Results Table	20221007 Injection Volume
Sample Type	Unknown
File Name	20221007 Injection volume study.wiff
Position	15
Sample Comment	

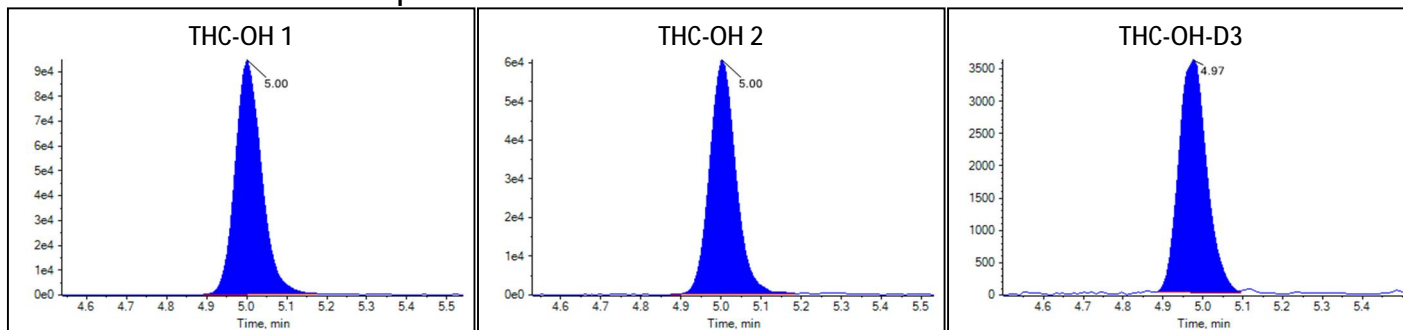
Quantitative Summary

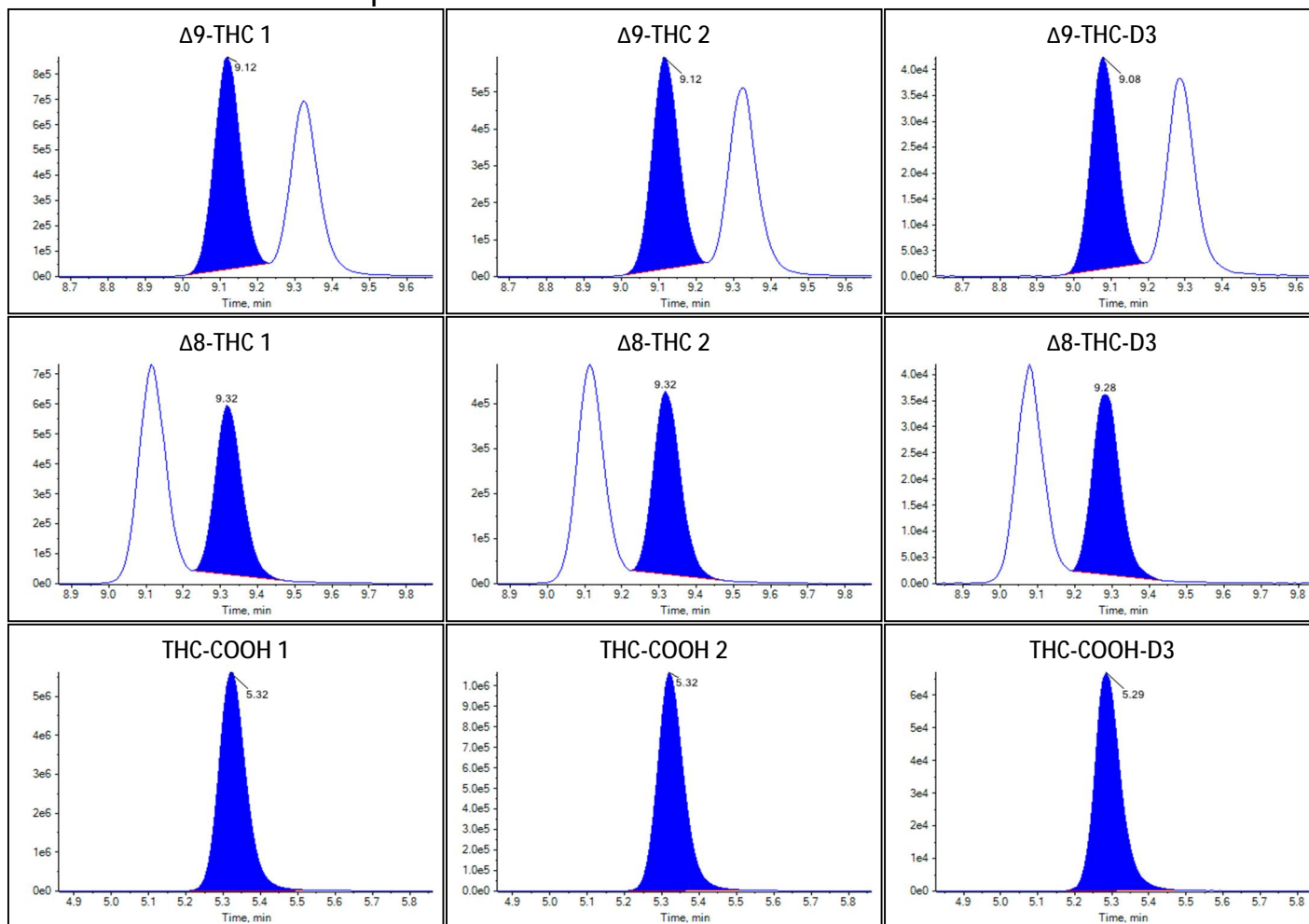
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	24.4103	210.651		
Δ9-THC	20.5302	no root		
Δ8-THC	15.9159	no root		
THC-COOH	87.9865	886.544		

Identification Summary: Standard 6 6x 1µL

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.636(Pass)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.688(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.727(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.183(Pass)

Peak Review: Standard 6 6x 1µL



Peak Review: Standard 6 6x 1 μ L



Sample Summary

Sample Name	Standard 6 7x 1µL
Acquisition Date/Time	2022-10-07T20:58:11
Acquisition Method	THC.dam
Batch Name	Bias and precision batch.dab
Results Table	20221007 Injection Volume
Sample Type	Unknown
File Name	20221007 Injection volume study.wiff
Position	16
Sample Comment	

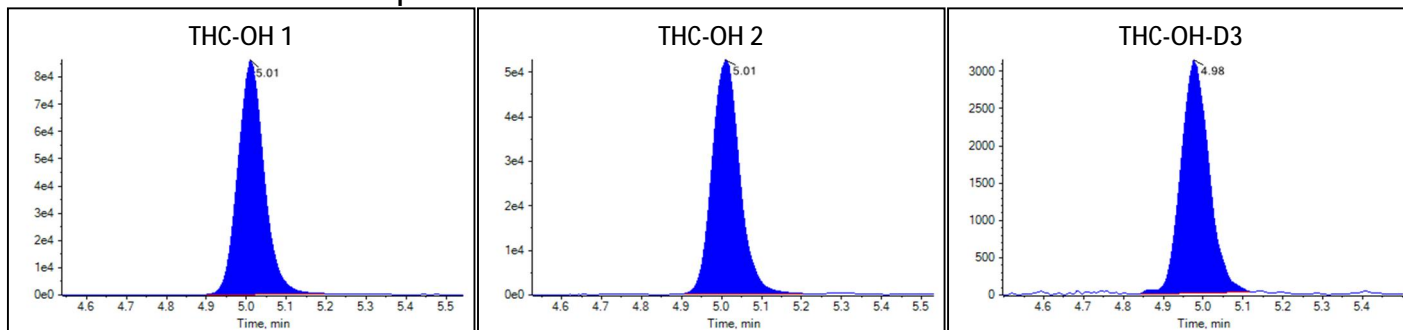
Quantitative Summary

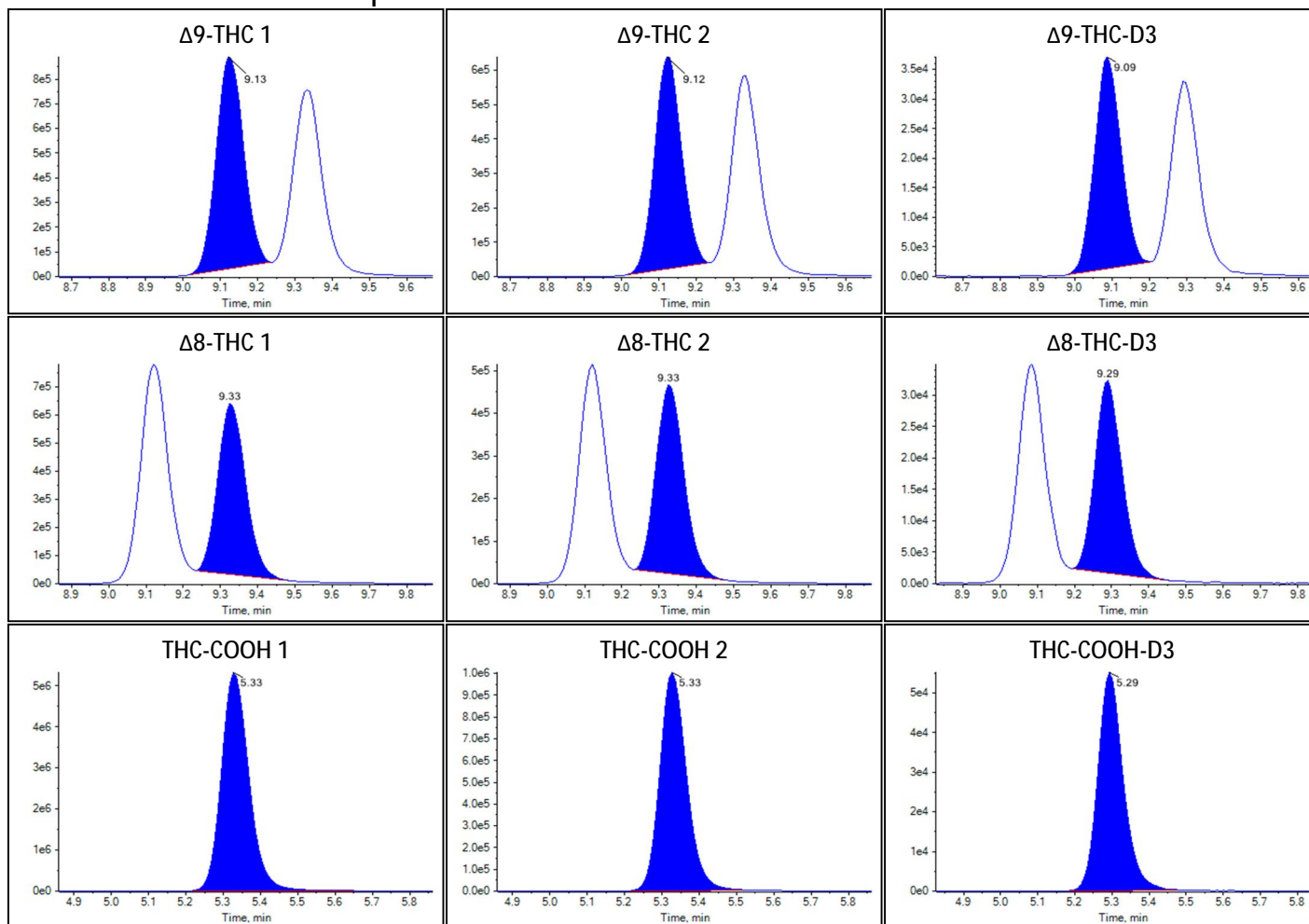
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	25.4376	219.511		
Δ9-THC	24.8464	no root		
Δ8-THC	20.4167	no root		
THC-COOH	103.7058	1044.981		

Identification Summary: Standard 6 7x 1µL

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.643(Pass)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.706(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.731(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.184(Pass)

Peak Review: Standard 6 7x 1µL



Peak Review: Standard 6 7x 1 μ L



Sample Summary

Sample Name	Standard 6 8x 1µL
Acquisition Date/Time	2022-10-07T21:12:13
Acquisition Method	THC.dam
Batch Name	Bias and precision batch.dab
Results Table	20221007 Injection Volume
Sample Type	Unknown
File Name	20221007 Injection volume study.wiff
Position	17
Sample Comment	

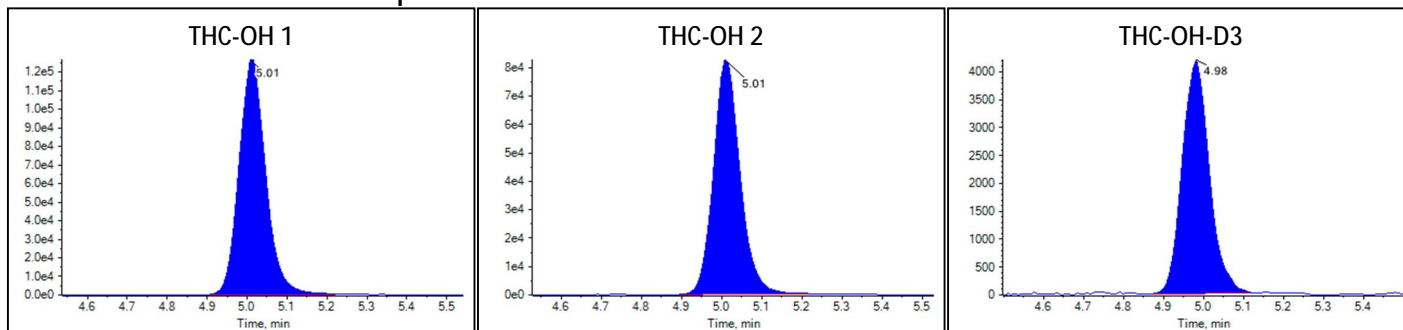
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	29.7483	256.689		
Δ9-THC	25.2866	no root		
Δ8-THC	21.0961	no root		
THC-COOH	117.8932	1187.978		

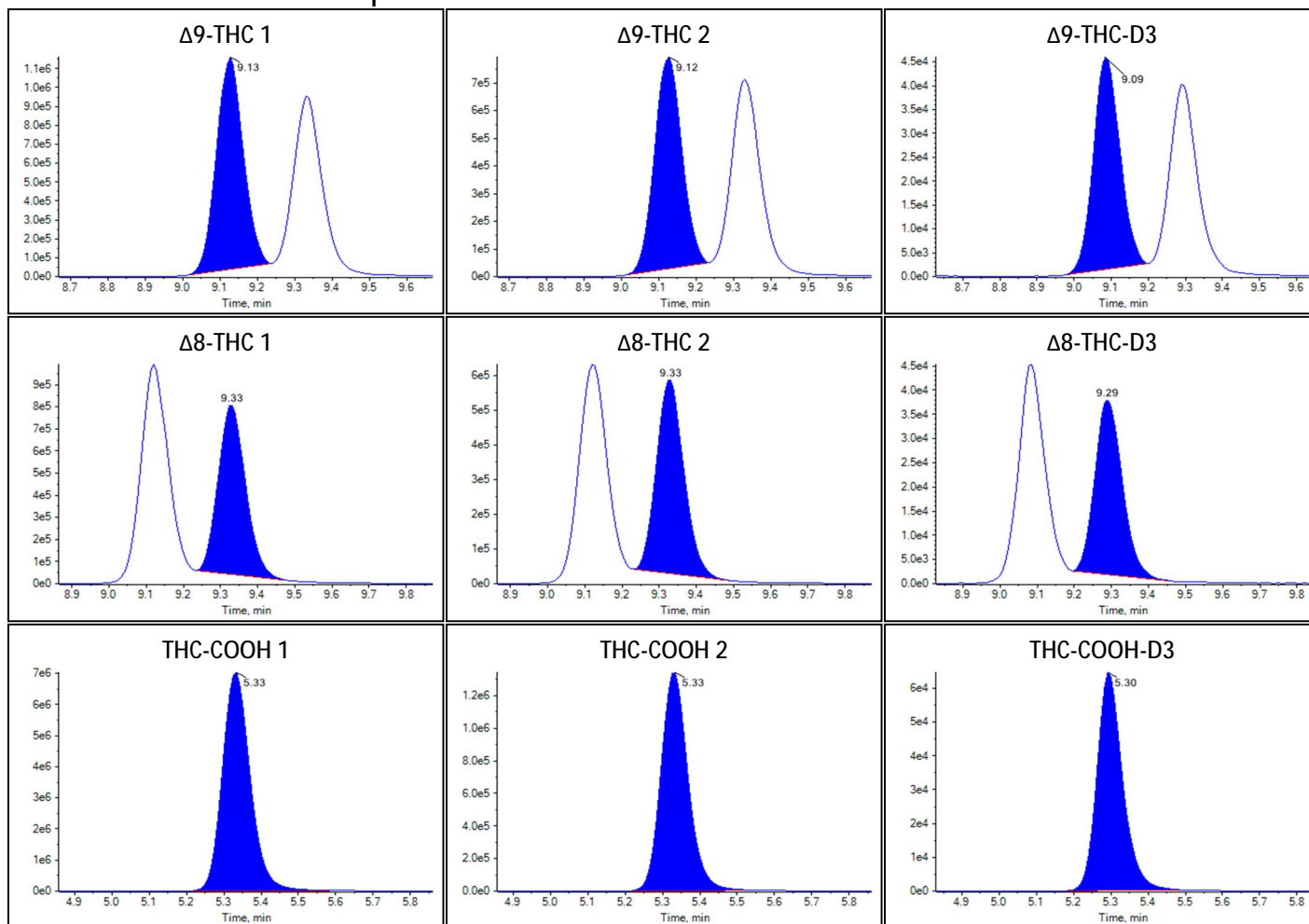
Identification Summary: Standard 6 8x 1µL

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.648(Pass)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.697(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.729(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.186(Pass)

Peak Review: Standard 6 8x 1µL



Peak Review: Standard 6 8x 1µL





Sample Summary

Sample Name	Standard 6 9x 1µL
Acquisition Date/Time	2022-10-07T21:26:15
Acquisition Method	THC.dam
Batch Name	Bias and precision batch.dab
Results Table	20221007 Injection Volume
Sample Type	Unknown
File Name	20221007 Injection volume study.wiff
Position	18
Sample Comment	

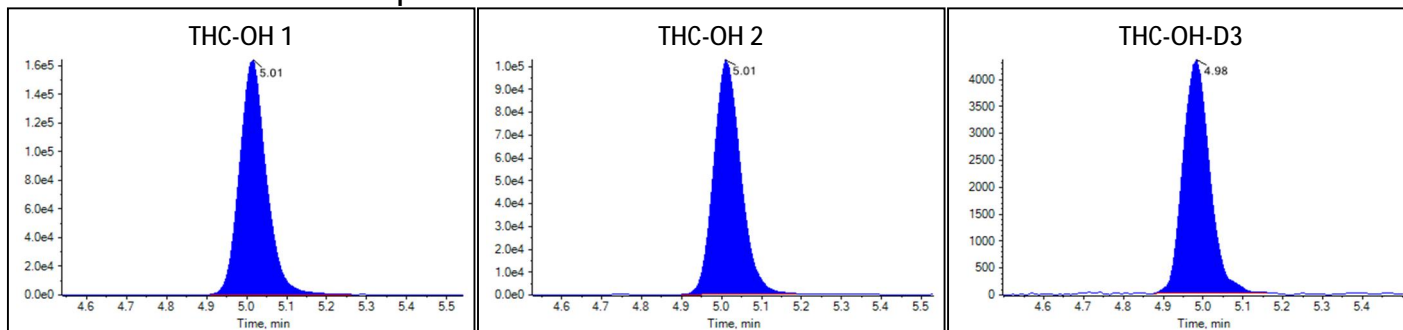
Quantitative Summary

Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	37.4446	323.065		
Δ9-THC	36.8124	no root		
Δ8-THC	29.6348	no root		
THC-COOH	128.6310	1296.206		

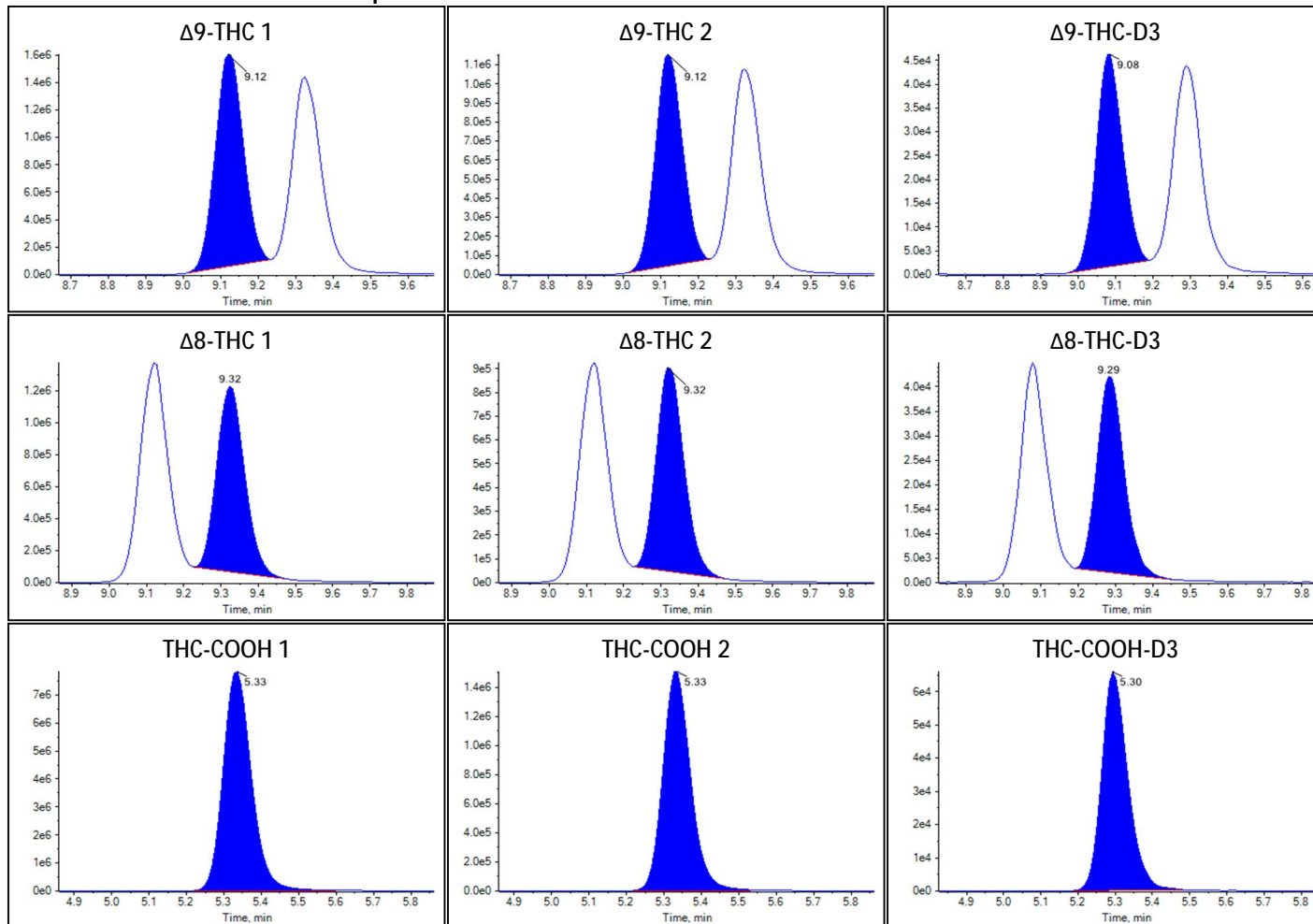
Identification Summary: Standard 6 9x 1µL

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.634(Pass)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.700(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.739(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.188(Pass)

Peak Review: Standard 6 9x 1µL



Peak Review: Standard 6 9x 1µL





Sample Summary

Sample Name	Standard 6 10x 1µL
Acquisition Date/Time	2022-10-07T21:40:18
Acquisition Method	THC.dam
Batch Name	Bias and precision batch.dab
Results Table	20221007 Injection Volume
Sample Type	Unknown
File Name	20221007 Injection volume study.wiff
Position	19
Sample Comment	

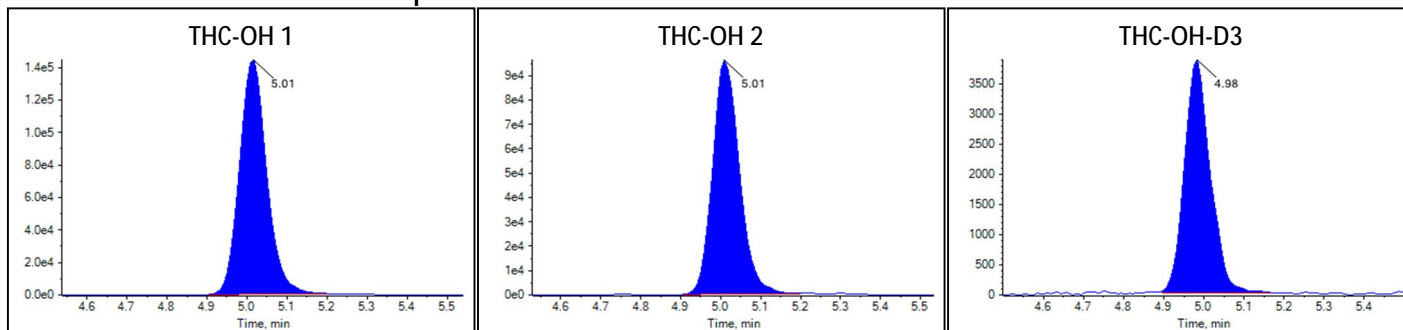
Quantitative Summary

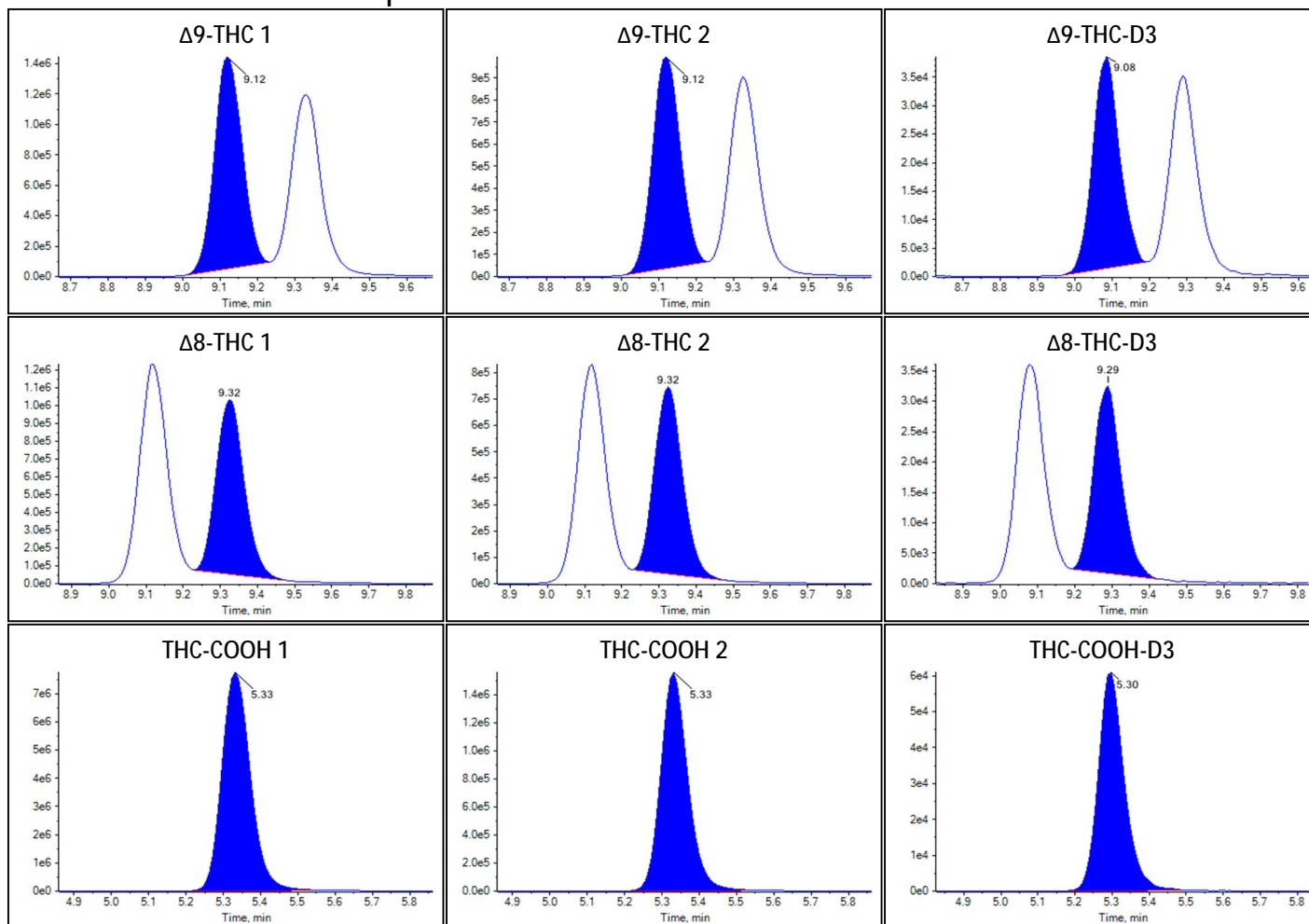
Analyte	Area Ratio	Calculated Concentration	Analyte Comment	Component Comment
THC-OH	39.2661	338.775		
Δ9-THC	38.7759	no root		
Δ8-THC	32.7332	no root		
THC-COOH	139.0340	1401.058		

Identification Summary: Standard 6 10x 1µL

Analyte Name	Transition Mass	RRT(Query)	Ion Ratio (Query)
THC-OH 1	331.1 / 193.1	1.010(Pass)	
THC-OH 2	331.1 / 105.1	1.010(Pass)	0.657(Pass)
Δ9-THC 1	315.1 / 193.1	1.000(Pass)	
Δ9-THC 2	315.1 / 123.0	1.000(Pass)	0.692(Pass)
Δ8-THC 1	315.1 / 193.1	1.000(Pass)	
Δ8-THC 2	315.1 / 123.1	1.000(Pass)	0.724(Pass)
THC-COOH 1	343.0 / 299.1	1.010(Pass)	
THC-COOH 2	343.0 / 191.0	1.010(Pass)	0.190(Pass)

Peak Review: Standard 6 10x 1µL



Peak Review: Standard 6 10x 1 μ L

MEASUREMENT UNCERTAINTY

Delta-9 THC MU Calculation

Control	Low	Medium	High
mean	2.97	41.36	85.55
std dev	0.12	1.60	4.87
%CV	4.04	3.87	5.69

Source of Uncertainty (Type A)	Value	Distribution	Divisor	Uncertainty
Pooled Validation RSD	4.61%	Normal	1	4.61%

Source of Uncertainty (Type B)	Value	Distribution	Divisor	Uncertainty
--------------------------------	-------	--------------	---------	-------------

Sample Pipette - highest% used 007				
Target 1000 uL, +/- 5.539 uL to 95%				
Bias = $1000 - 5.539 = 994.5$ ($994.5 - 1000$)/1000 = +/- 0.0055				
% Bias = $0.0055 * 100 = +/- 0.55$	0.55%	Normal	2	0.28%

Cal/Ctrl Spike Pipette - highest% used - 064				
Target 20 uL, MU +/- 0.135 uL to 95%				
Bias = $20 - 0.135 = 19.87$ ($19.87 - 20$)/20 = +/- 0.0065				
% Bias = $0.0065 * 100 = +/- 0.65\%$	0.65%	Normal	2	0.33%

I.S. Pipette - highest% used - repeater 103				
Target 1000 uL, MU +/- 1.711 uL to 95%				
Bias = $1000 - 1.711 = 998.289$ ($998.289 - 1000$)/1000 = +/- 0.002				
% Bias = $0.002 * 100 = +/- 0.2\%$	0.20%	Normal	2	0.10%

Volumetric Flask - highest% used - 3683				
Target volume 5mL, MU +/- 0.037 uL to 95%				
Bias = $(4.963 - 5)/5 = 0.0074$				
% Bias = $0.0074 * 100 = 0.74\%$	0.74%	Normal	2	0.37%

Cal/Ctrl Prep Pipette - highest% used - 068				
Target 100 uL, MU +/- 3.286 uL to 95%				
Bias = $100 - 3.286 = 96.714$ ($96.714 - 100$)/100 = +/- 0.03286				
% Bias = $0.033 * 100 = +/- 3.3\%$	3.30%	Normal	2	1.65%

Cerilliant Standard FE09162102				
1 ± 0.006 mg/mL to 95%	0.60%	Normal	2	0.30%

Combined Uncertainty = $\sqrt{(4.61^2 + 0.28^2 + 0.33^2 + 0.10^2 + 0.37^2 + 1.65^2 + 0.30^2)}$ =
4.94%

TypeA n = 15 (validation data)

4.94% x k2 = 9.88%

Delta-9 THC Uncertainty to 95% confidence level = 10%

Delta-8 THC MU Calculation

Control	Low	Medium	High
mean	2.83	40.36	91.30
std dev	0.10	1.96	5.84
%CV	3.53	4.86	6.40

Source of Uncertainty (Type A)	Value	Distribution	Divisor	Uncertainty
Pooled Validation RSD	5.07%	Normal	1	5.07%

Source of Uncertainty (Type B)	Value	Distribution	Divisor	Uncertainty
--------------------------------	-------	--------------	---------	-------------

Sample Pipette - highest% used 007				
Target 1000 uL, +/- 5.539 uL to 95%				
Bias = $1000 - 5.539 = 994.5$ ($994.5 - 1000$)/1000 = +/- 0.0055				
% Bias = $0.0055 * 100 = +/- 0.55$	0.55%	Normal	2	0.28%

Cal/Ctrl Spike Pipette - highest % used - 064				
Target 20 uL, MU +/- 0.135 uL to 95%				
Bias = $20 - 0.135 = 19.87$ ($19.87 - 20$)/20 = +/- 0.0065				
% Bias = $0.0065 * 100 = +/- 0.65\%$	0.65%	Normal	2	0.33%

I.S. Pipette - highest % used - repeater 103				
Target 1000 uL, MU +/- 1.711 uL to 95%				
Bias = $1000 - 1.711 = 998.289$ ($998.289 - 1000$)/1000 = +/- 0.002				
% Bias = $0.002 * 100 = +/- 0.2\%$	0.20%	Normal	2	0.10%

Volumetric Flask - highest % used - 3683				
Target volume 5mL, MU +/- 0.037 uL to 95%				
Bias = $(4.963 - 5)/5 = 0.0074$				
% Bias = $0.0074 * 100 = 0.74\%$	0.74%	Normal	2	0.37%

Cal/Ctrl Prep Pipette - highest % used - 068				
Target 100 uL, MU +/- 3.286 uL to 95%				
Bias = $100 - 3.286 = 96.714$ ($96.714 - 100$)/100 = +/- 0.03286				
% Bias = $0.033 * 100 = +/- 3.3\%$	3.30%	Normal	2	1.65%

Cerilliant Standard FE02172272				
1 ± 0.006 mg/mL to 95%	0.60%	Normal	2	0.30%

Combined Uncertainty = $\sqrt{5.07^2 + 0.28^2 + 0.33^2 + 0.10^2 + 0.37^2 + 1.65^2 + 0.30^2}$ = 5.37%

TypeA n = 15 (validation data)

5.37% x k2 = 10.74%

Delta-8 THC Uncertainty to 95% confidence level = 11%

Delta-9 Carboxy THC MU Calculation

Control	Low	Medium	High
mean	7.75	42.71	75.28
std dev	0.24	1.73	3.08
%CV	3.10	4.05	4.09

Source of Uncertainty (Type A)	Value	Distribution	Divisor	Uncertainty
Pooled Validation RSD	3.77%	Normal	1	3.77%

Source of Uncertainty (Type B)	Value	Distribution	Divisor	Uncertainty
--------------------------------	-------	--------------	---------	-------------

Sample Pipette - highest% used 007				
Target 1000 uL, +/- 5.539 uL to 95%				
Bias = $1000 - 5.539 = 994.5$ ($994.5 - 1000$)/1000 = +/- 0.0055				
% Bias = $0.0055 * 100 = +/- 0.55$	0.55%	Normal	2	0.28%

Cal/Ctrl Spike Pipette - highest % used - 064				
Target 20 uL, MU +/- 0.135 uL to 95%				
Bias = $20 - 0.135 = 19.87$ ($19.87 - 20$)/20 = +/- 0.0065				
% Bias = $0.0065 * 100 = +/- 0.65\%$	0.65%	Normal	2	0.33%

I.S. Pipette - highest % used - repeater 103				
Target 1000 uL, MU +/- 1.711 uL to 95%				
Bias = $1000 - 1.711 = 998.289$ ($998.289 - 1000$)/1000 = +/- 0.002				
% Bias = $0.002 * 100 = +/- 0.2\%$	0.20%	Normal	2	0.10%

Volumetric Flask - highest % used - 3683				
Target volume 5mL, MU +/- 0.037 uL to 95%				
Bias = $(4.963 - 5)/5 = 0.0074$				
% Bias = $0.0074 * 100 = 0.74\%$	0.74%	Normal	2	0.37%

Cal/Ctrl Prep Pipette - highest % used - 068				
Target 100 uL, MU +/- 3.286 uL to 95%				
Bias = $100 - 3.286 = 96.714$ ($96.714 - 100$)/100 = +/- 0.03286				
% Bias = $0.033 * 100 = +/- 3.3\%$	3.30%	Normal	2	1.65%

Cerilliant Standard FE09182008				
1 ± 0.006 mg/mL to 95%	0.60%	Normal	2	0.30%

Combined Uncertainty = $\sqrt{(3.77^2 + 0.28^2 + 0.33^2 + 0.1^2 + 0.37^2 + 1.65^2 + 0.3^2)}$ =
4.51%

TypeA n = 15 (validation data)

4.51% x k2 = 9.02%

Delta-9 Carboxy THC Uncertainty to 95% confidence level =
9%

11-Hydroxy Delta-9 THC MU Calculation

Control	Low	Medium	High
mean	1.97	10.19	17.01
std dev	0.10	0.33	0.55
%CV	5.08	3.24	3.23

Source of Uncertainty (Type A)	Value	Distribution	Divisor	Uncertainty
Pooled Validation RSD	3.95%	Normal	1	3.95%

Source of Uncertainty (Type B)	Value	Distribution	Divisor	Uncertainty
--------------------------------	-------	--------------	---------	-------------

Sample Pipette - highest% used 007				
Target 1000 uL, +/- 5.539 uL to 95%				
Bias = $1000 - 5.539 = 994.5$ ($994.5 - 1000$)/1000 = +/- 0.0055				
% Bias = $0.0055 * 100 = +/- 0.55$	0.55%	Normal	2	0.28%

Cal/Ctrl Spike Pipette - highest % used - 064				
Target 20 uL, MU +/- 0.135 uL to 95%				
Bias = $20 - 0.135 = 19.87$ ($19.87 - 20$)/20 = +/- 0.0065				
% Bias = $0.0065 * 100 = +/- 0.65\%$	0.65%	Normal	2	0.33%

I.S. Pipette - highest % used - repeater 103				
Target 1000 uL, MU +/- 1.711 uL to 95%				
Bias = $1000 - 1.711 = 998.289$ ($998.289 - 1000$)/1000 = +/- 0.002				
% Bias = $0.002 * 100 = +/- 0.2\%$	0.20%	Normal	2	0.10%

Volumetric Flask - highest % used - 3683				
Target volume 5mL, MU +/- 0.037 uL to 95%				
Bias = $(4.963 - 5)/5 = 0.0074$				
% Bias = $0.0074 * 100 = 0.74\%$	0.74%	Normal	2	0.37%

Cal/Ctrl Prep Pipette - highest % used - 068				
Target 100 uL, MU +/- 3.286 uL to 95%				
Bias = $100 - 3.286 = 96.714$ ($96.714 - 100$)/100 = +/- 0.03286				
% Bias = $0.033 * 100 = +/- 3.3\%$	3.30%	Normal	2	1.65%

Cerilliant Standard FE09182008				
1 ± 0.006 mg/mL to 95%	0.60%	Normal	2	0.30%

Combined Uncertainty = $\sqrt{(3.95^2 + 0.28^2 + 0.33^2 + 0.10^2 + 0.37^2 + 1.65^2 + 0.30^2)}$ = 4.33%

TypeA n = 15 (validation data)

4.33% x k2 = 8.66%

11-Hydroxy Delta-9 THC Uncertainty to 95% confidence level

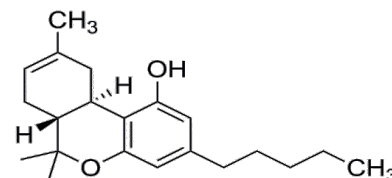
= 9%

Certified Reference Material - Certificate of Analysis

(-)- Δ^8 -THC, Primary Measurement Standard

(6aR,10aR)-6a,7,10,10a-tetrahydro-6,6-9-trimethyl-3-pentyl-6H-dibenzo[b,d]pyran-1-ol

Product No.: T-032-1ML
Lot No.: FE02172272
Description of CRM: (-)- Δ^8 -THC in Methanol (Solution)
Expiration Date: April 2027 See Stability Section
Storage: Store unopened in freezer (-10 °C to -25 °C).
Shipping: Ambient. See Stability Section
Chemical formula: C₂₁H₃₀O₂
CAS No.: 5957-75-5
Regulatory: USDEA Exempt | Canadian TK # 61-1550



Analyte

Certified Concentration \pm associated uncertainty U , $u = k \cdot u$ ($k=2$)

(-)- Δ^8 -THC

1.000 \pm 0.006 mg/mL

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. See "Details on metrological traceability" on page 3.

Measurement method: The certified value is calculated from high precision weighing of thoroughly characterized starting material. See "Details about certification process" on page 3.

Intended use: This Certified Reference Material is suitable for the in vitro identification, calibration, and quantification of the analyte(s) in analytical and R&D applications. Not suitable for human or animal consumption.

Minimum sample size: 1 μ L for quantitative applications

Instructions for handling and correct use: Concentration is corrected for chromatographic purity, residual water, residual solvents, and residual inorganics. No adjustment required before use. Users should quantitatively transfer desired volume using established good laboratory practices to spike into matrix or to dilute to the desired concentration. Each ampoule is intended for one-time use.

Health and safety information: Danger. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Cerilliant Corp. is accredited by the US accreditation authority ANAB as registered reference material producer AR-1353 in accordance with ISO 17034 and registered testing laboratory AT-1352 according to ISO/IEC 17025.



Darron Ellsworth, Quality Assurance Manager

May 03, 2022

Issue Date

Cerilliant Corporation, 811 Paloma Drive, Suite A, Round Rock, TX, 78665, USA,
 Tel: 800-848-7837 / 512-238-9974; www.cerilliant.com
 Sigma-Aldrich Production GmbH is a subsidiary of Merck KGaA, Darmstadt, Germany.



Packaging:

2 mL amber USP Type 1 glass ampoule containing not less than 1 mL of certified solution. Ampoules are overfilled to ensure a minimum of 1 mL volume can be transferred when using a 1mL Class A volumetric pipette.

Details on starting materials:

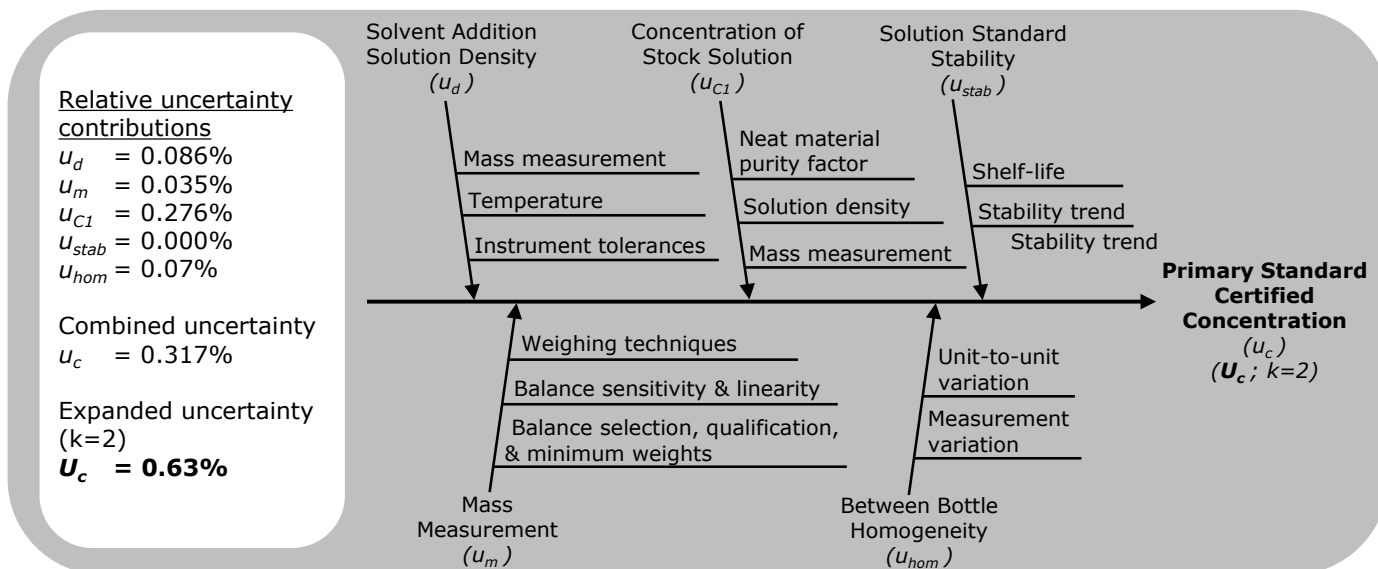
Each raw material utilized has been identified and thoroughly characterized through the use of multiple analytical techniques and is assigned a Mass Balance Purity Factor. Spectral data is provided on subsequent pages of this CoA.

Certificate of Origin:

Cerilliant Corporation certifies no material of animal origin (BSE/TSE) was used in the preparation of this product. This material is a product of the USA.

Associated uncertainty:

The uncertainty has been calculated by statistical analysis of all aspects of our production system and incorporated uncertainty of the mass balance purity factor, material density, balance, weighing technique, and homogeneity. Uncertainty components of the gravimetrically prepared Primary Standard concentration are shown in the figure below. Uncertainty is expressed as an expanded uncertainty in accordance with ISO 17034 at the approximate 95% confidence interval using a coverage factor of $k=2$. Uncertainty contribution from neat material homogeneity was established to be negligible through establishment of process controls and verification of the control process. Stability uncertainty was determined to be negligible by regression analysis.



Details on metrological traceability:

- ♦ This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error.
- ♦ Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances.
- ♦ The density and material Mass Balance Purity Factor of each raw material is traceable to the SI and higher order reference materials through mass measurement and instrument qualification and calibrations.

Details about certification process:

This standard has been prepared and certified under the ISO 17034, ISO/IEC 17025, and ISO 9001 standards. This standard meets the requirements of a Certified Reference Material and a Primary Standard as defined by ISO and is traceable to the SI and higher order standards through an unbroken chain of comparisons.

- ♦ Nominal concentration is calculated based on: the actual mass; Mass balance purity factor of the analyte(s); measured mass of the solution; and the density of the pure diluent at 20°C.
- ♦ Fill volume is gravimetrically verified throughout the dispensing process using qualified and calibrated balances.
- ♦ Concentration is verified against an independently prepared calibration solution gravimetrically prepared.
- ♦ Additional certification information available upon request.

Solution Standard Verification

Concentration accuracy and within- and between-bottle homogeneity are analytically verified against an independently prepared calibration solution and to the prior lot.

Standard Solution Assay Parameters		Calibration Curve	
Analysis Method:	HPLC/UV	Calibration Curve:	Linear Regression
Column:	Ascentis Express C18, 2.7 μ m, 3.0 x 50 mm	Number of Points:	4
Mobile Phase:	Acetonitrile:[Methanol:Water:Tetrahydrofuran (62:33:5)] (30:70)	Linearity (r) :	1.000
Flow Rate:	1.5 mL/min		
Wavelength:	228 nm		
		Verified Concentration (mg/mL)	%RSD - Homogeneity
Standard Solution	Lot Number	Actual Results	Actual Results
New Lot	FE02172272	1.005	0.2
Previous Lot	FE04282108	0.976	0.2
<ul style="list-style-type: none">Concentration is verified through multiple analyses and is calculated as the average of multiple analyses compared to an independently prepared calibration solution.Within-sample and between-sample homogeneity of the New Lot is ensured through rigorous production process controls statistically analyzed to evaluate risk and verified by analysis. Multiple samples pulled from across the lot using a random stratified sampling plan were analyzed to verify homogeneity. % RSD results shown above for the New Lot demonstrate ampoule-to-ampoule homogeneity.			

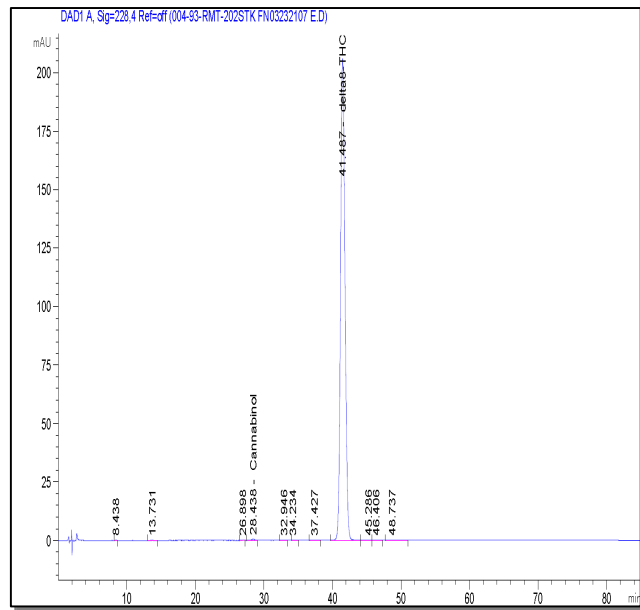
Analyte Certification - Mass Balance Purity Factor

Each analyte is thoroughly identified and characterized using an orthogonal approach. A mass balance purity factor is assigned incorporating chromatographic purity and residual impurities. The mass balance purity factor is utilized to calculate the weighing adjustment necessary to ensure accuracy of the solution standard concentration.

Material Name:	(-)-Δ ⁸ -THC	Chemical Formula:	C ₂₁ H ₃₀ O ₂
Material Lot:	FN03232107	CAS Number:	5957-75-5
		Molecular Weight:	314.46
Material Characterization Summary			
Analytical Test	Method	Results	
Primary Chromatographic Purity by HPLC/UV Analysis	20397996	99.2% ¹	
Secondary Chromatographic Purity by GC/FID Analysis	20397988	99.5%	
Total THC (Δ ⁹ -THC and THCA-A) on a Dry Weight Basis	20487859	< 0.3%	
Identity by GC/MS Analysis	20384214	Consistent with Structure	
Identity by ¹ H-NMR Analysis	20384224	Consistent with Structure	
Residual Solvent Analysis by GC/FID Headspace	20397799 ²	1.02%	
Residual Water Analysis by Karl Fischer Coulometry	20398075 ²	Not Detected	
Mass Balance Purity Factor		98.23%	
¹ 0.17% Cannabinol detected by HPLC/UV analysis. No Cannabidiol or (-)-Δ ⁹ -THC detected.			
² Validated analytical method			
<ul style="list-style-type: none">♦ The primary chromatographic purity is calculated as the average of two independently performed analyses utilizing two different methods. Acceptance criteria requires the purity values to be within 0.5% of each other.♦ The primary purity method was selected to optimize resolution of impurities while minimizing degradation of the analyte. Secondary purity methods with orthogonal detector capabilities from the primary purity method are used as controls to confirm an accurate purity value.♦ The primary chromatographic purity value is used to calculate the Mass Balance Purity Factor.♦ A secondary chromatographic purity method is utilized as a control.♦ Mass Balance Purity Factor = [(100 - wt% residual solvent - wt% residual water - wt% residual inorganics) x Chromatographic Purity/100].♦ Mass Balance Purity Factor does not include adjustment for chiral and/or isotopic purity.			

Spectral and Physical Data

HPLC/UV

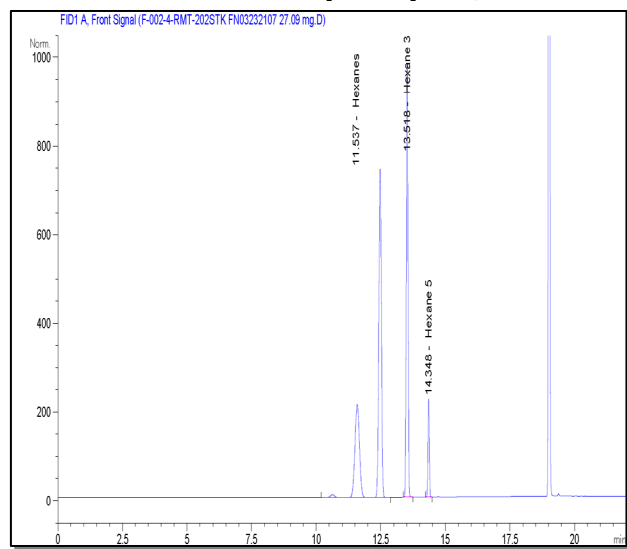


Column: Luna C18, 3 μ m, 4.6 x 150 mm
Mobile Phase: Methanol:Water:Tetrahydrofuran (71:24:5)
Flow Rate: 1.0 mL/min
Wavelength: 228 nm

Sample Name: FN03232107
Acquired: July 18, 2021

Peak #	Ret Time	Area %	
1	8.44	0.02	
2	13.73	0.02	
3	26.90	0.02	
4	28.44	0.17	Cannabinol
5	32.95	0.02	
6	34.23	0.02	
7	37.43	0.07	
8	41.49	99.44	(-)- Δ^8 -THC
9	45.29	0.08	
10	46.41	0.06	
11	48.74	0.07	

Residual Solvent Analysis by GC/FID Headspace



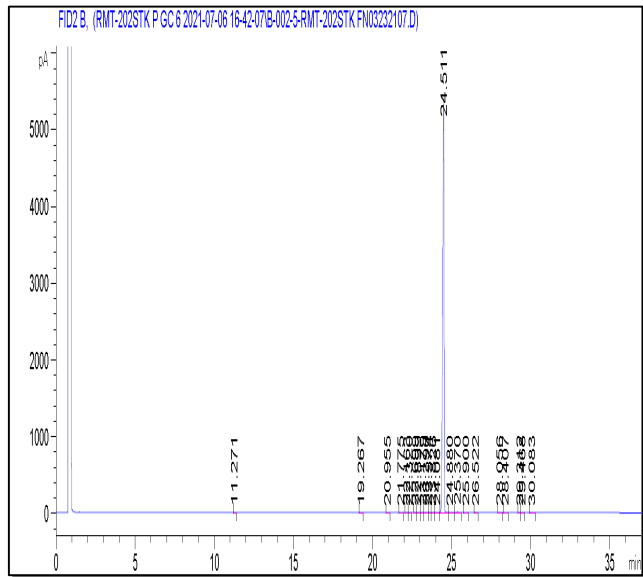
Column: DB-ALC1 30 m x 0.53 mm, 3 μ m film thickness
Temp Program: 40°C hold 12 min to 220°C at 40°C/min hold 5.5 min
Carrier Gas: Helium
Flow Rate: 2.0 mL/min
Detector Heater Temp: 250°C
Injector: Headspace Sampler
HS Oven Temp: 60°C
Vial Equilibration: 10 minutes

Sample Name: FN03232107
Acquired: July 06, 2021

Peak	Compound	Area	Weight %
1	Hexanes	13051.55	1.02
2	NMP	NA	NA
Total			1.02

Spectral and Physical Data (cont.)

GC/FID



Column: DB-35ms, 30 m x 0.53 mm ID,
1.0 µm film thickness

Temp Program: 60°C to 200°C at 10°C/min
200°C to 280°C at 5°C/min
hold 7 min

Injector Temp: Cool-on-Column

Detector Temp: 325°C

Sample Name: FN03232107

Acquired: July 06, 2021

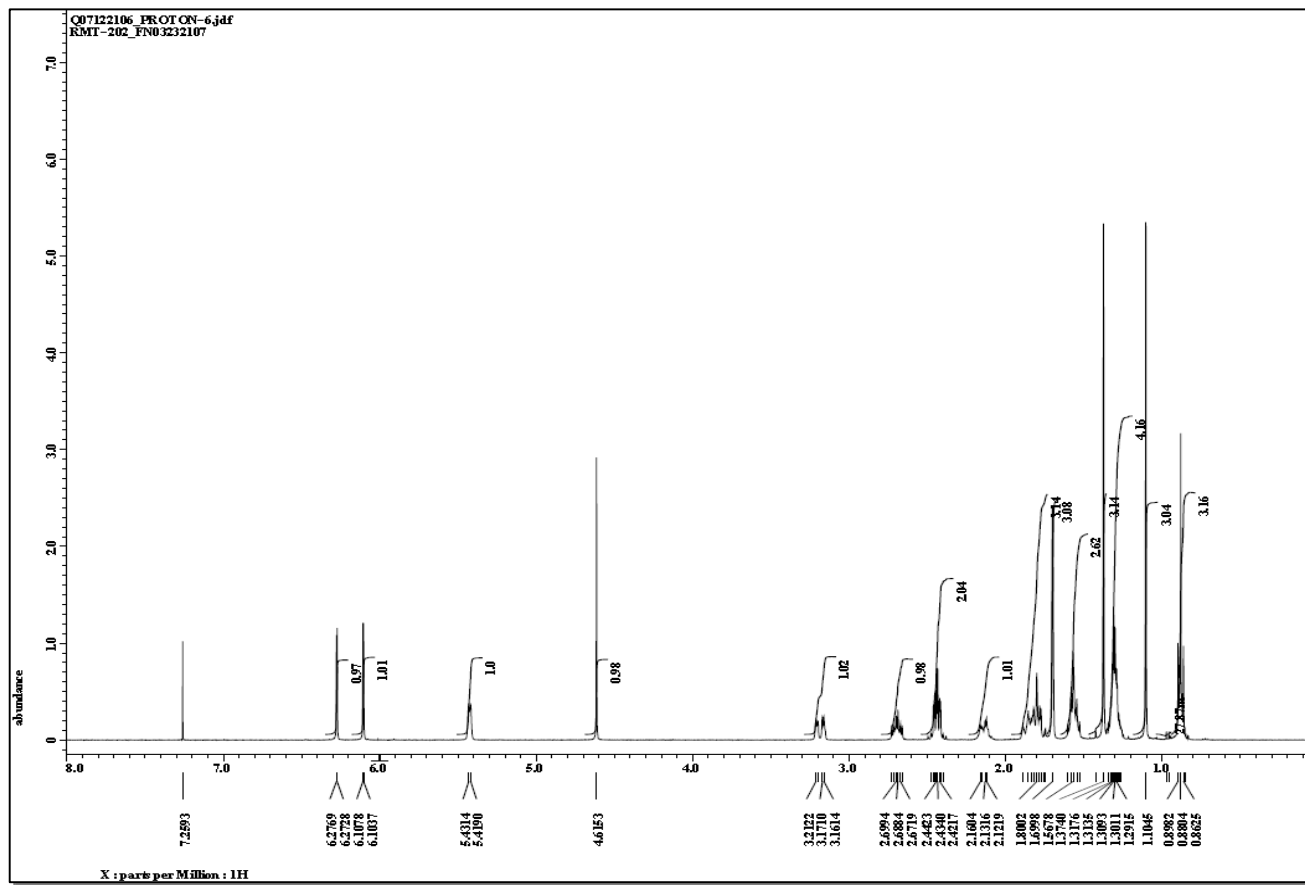
Peak #	Ret Time	Area %
1	11.27	0.00
2	19.27	0.00
3	20.96	0.02
4	21.78	0.02
5	22.16	0.01
6	22.32	0.00
7	22.70	0.00
8	22.90	0.04
9	23.18	0.03
10	23.39	0.07
11	23.57	0.01
12	23.83	0.01
13	24.08	0.03
14	24.51	99.50
15	24.88	0.05
16	25.37	0.07
17	25.90	0.05
18	26.52	0.00
19	28.06	0.00
20	28.41	0.01
21	29.31	0.00
22	29.47	0.01
23	30.08	0.04

Spectral and Physical Data (cont.)

¹H NMR

Instrument: JEOL ECS 400

Solvent: Chloroform-D

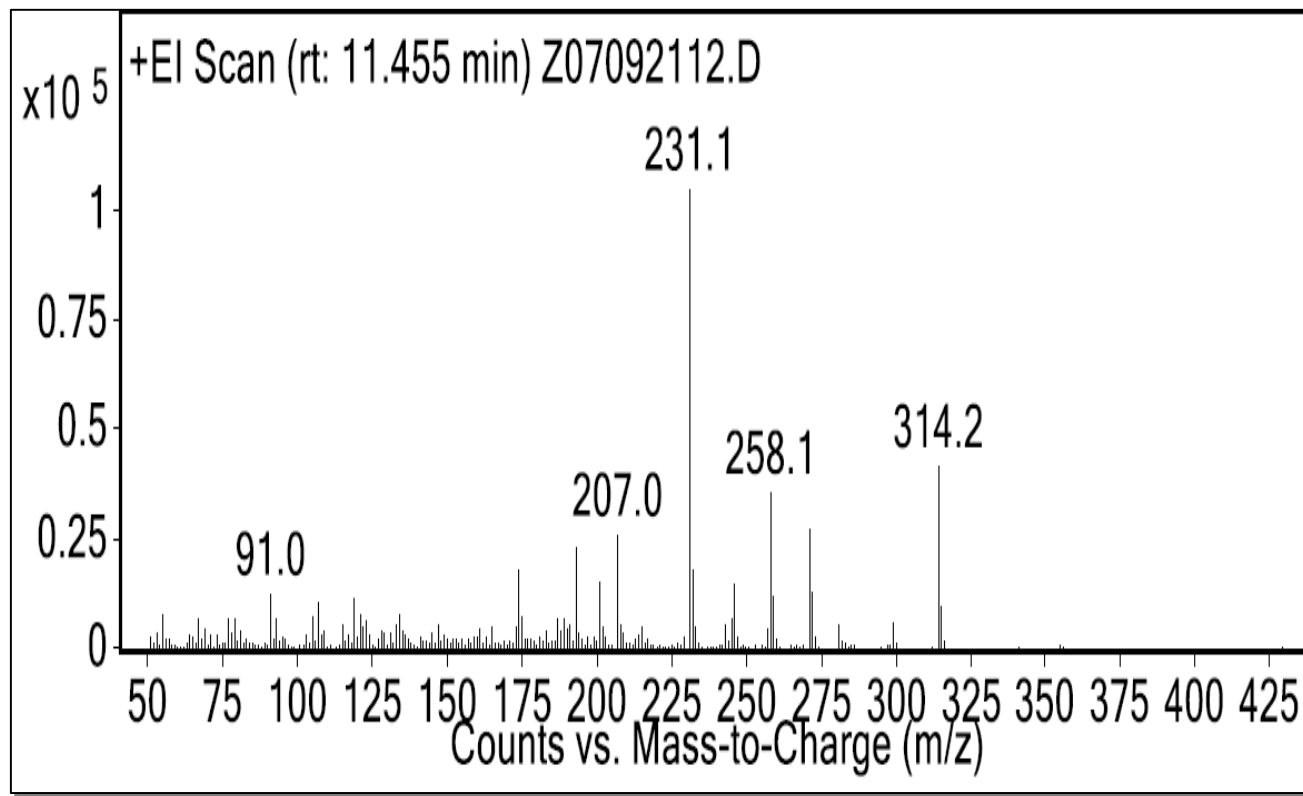


Spectral and Physical Data (cont.)

GC/MS

Column: DB-5ms 30 m x 0.25 mm ID,
0.25 μ m film thickness
Temp Program: 50°C to 200°C at 40°C/min
200°C to 300°C at 10°C/min
hold 16 min

Scan Range: 50-500 amu
Instrument: Agilent 597X GCMS
Acquired: July 09, 2021



Stability

Short term stability studies have been performed in multiple storage conditions for a period of up to four weeks. Short term data is utilized to support transport conditions and normal laboratory use. Real-time stability studies are performed at the recommended storage conditions over the life of the product.

Short Term Stability: A summary of stability findings for this product is listed below.

Storage Condition	Targeted Mean Kinetic Temperature (MKT)	Time Period/Result
Freezer	-20°C	No decrease in purity was noted after four weeks.
Refrigerator	5°C	
Room Temperature	20°C	
40°C	40°C	

Transport/Shipping: Stability studies support the transport of this product at ambient conditions.

Long Term Stability: Long term stability has been assessed for Freezer storage (-10 °C to -25 °C) conditions. Stability of a minimum of 60 months has been established through real-time stability studies.

Commutability

This standard is a solution of a pure substance in an organic solvent and is a Primary Standard. This Primary Standard is suitable for use in the preparation of calibrators and/or controls in any biological matrix. This standard is not in a biological matrix and therefore commutability to methods or standards in biological matrices does not apply.

COA Revision History

Revision No.	Date	Reason for Revision
00	May 03, 2022	Initial version.

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The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the US and Canada.

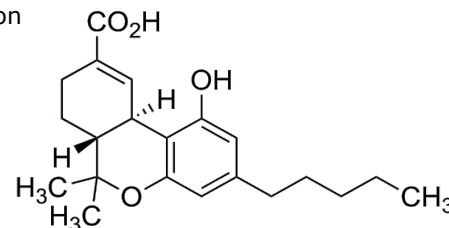


Certified Reference Material - Certificate of Analysis

(-)-11-nor-9-Carboxy- Δ^9 -THC, Primary Measurement Standard

6a,7,8,10a-tetrahydro-6,6-dimethyl-3-(pentyl)-6H-dibenzo[b,d]pyran-9-carboxylic acid

Product No.: T-019-1ML
Lot No.: FN09252110
Description of CRM: (-)-11-nor-9-Carboxy- Δ^9 -THC in Methanol (Solution)
Expiration Date: December 2026 See Stability Section
Storage: Store unopened in freezer (-10 °C to -25 °C).
Shipping: Ambient. See Stability Section
Chemical formula: C₂₁H₂₈O₄
CAS No.: 56354-06-4
Regulatory: Canadian TK # 61-1548



Analyte

**Certified Concentration \pm
associated uncertainty U , $u = k * u$ ($k=2$)**

(-)-11-nor-9-Carboxy- Δ^9 -THC

1.000 \pm 0.006 mg/mL

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. See "Details on metrological traceability" on page 3.

Measurement method: The certified value is calculated from high precision weighing of thoroughly characterized starting material. See "Details about certification process" on page 3.

Intended use: This Certified Reference Material is suitable for the in vitro identification, calibration, and quantification of the analyte(s) in analytical and R&D applications. Not suitable for human or animal consumption.

Minimum sample size: 1 μ L for quantitative applications

Instructions for handling and correct use: Concentration is corrected for chromatographic purity, residual water, residual solvents, and residual inorganics. No adjustment required before use. Users should quantitatively transfer desired volume using established good laboratory practices to spike into matrix or to dilute to the desired concentration. Each ampoule is intended for one-time use.

Health and safety information: Danger. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Cerilliant Corp. is accredited by the US accreditation authority ANAB as registered reference material producer AR-1353 in accordance with ISO 17034 and registered testing laboratory AT-1352 according to ISO/IEC 17025.



Darron Ellsworth, Quality Assurance Manager

March 30, 2022

Issue Date

Cerilliant Corporation, 811 Paloma Drive, Suite A, Round Rock, TX, 78665, USA,
 Tel: 800-848-7837 / 512-238-9974; www.cerilliant.com
 Sigma-Aldrich Production GmbH is a subsidiary of Merck KGaA, Darmstadt, Germany.



Packaging:

2 mL amber USP Type 1 glass ampoule containing not less than 1 mL of certified solution. Ampoules are overfilled to ensure a minimum of 1 mL volume can be transferred when using a 1mL Class A volumetric pipette.

Details on starting materials:

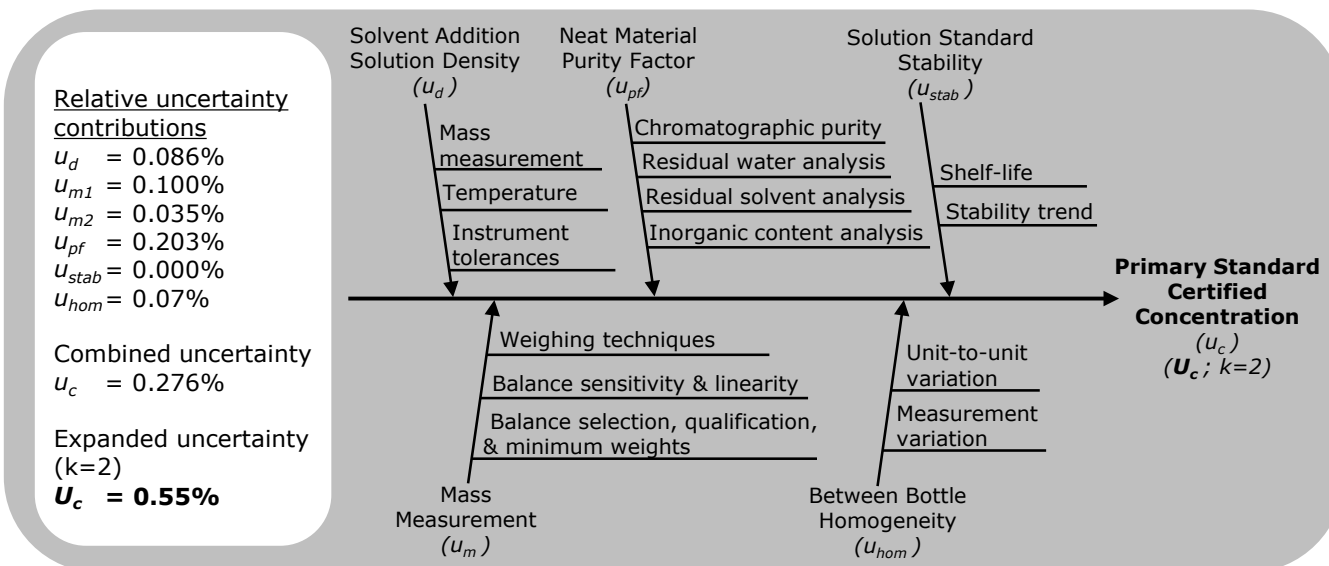
Each raw material utilized has been identified and thoroughly characterized through the use of multiple analytical techniques and is assigned a Mass Balance Purity Factor. Spectral data is provided on subsequent pages of this CoA.

Certificate of Origin:

Cerilliant Corporation certifies no material of animal origin (BSE/TSE) was used in the preparation of this product. This material is a product of the USA.

Associated uncertainty:

The uncertainty has been calculated by statistical analysis of all aspects of our production system and incorporated uncertainty of the mass balance purity factor, material density, balance, weighing technique, and homogeneity. Uncertainty components of the gravimetrically prepared Primary Standard concentration are shown in the figure below. Uncertainty is expressed as an expanded uncertainty in accordance with ISO 17034 at the approximate 95% confidence interval using a coverage factor of $k=2$. Uncertainty contribution from neat material homogeneity was established to be negligible through establishment of process controls and verification of the control process. Stability uncertainty was determined to be negligible by regression analysis.



Details on metrological traceability:

- ♦ This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error.
- ♦ Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances.
- ♦ The density and material Mass Balance Purity Factor of each raw material is traceable to the SI and higher order reference materials through mass measurement and instrument qualification and calibrations.

Details about certification process:

This standard has been prepared and certified under the ISO 17034, ISO/IEC 17025, and ISO 9001 standards. This standard meets the requirements of a Certified Reference Material and a Primary Standard as defined by ISO and is traceable to the SI and higher order standards through an unbroken chain of comparisons.

- ♦ Nominal concentration is calculated based on: the actual mass; Mass balance purity factor of the analyte(s); measured mass of the solution; and the density of the pure diluent at 20°C.
- ♦ Fill volume is gravimetrically verified throughout the dispensing process using qualified and calibrated balances.
- ♦ Concentration is verified against an independently prepared calibration solution gravimetrically prepared.
- ♦ Additional certification information available upon request.

Solution Standard Verification

Concentration accuracy and within- and between-bottle homogeneity are analytically verified against an independently prepared calibration solution and to the prior lot.

Standard Solution Assay Parameters		Calibration Curve	
Analysis Method:	HPLC/UV	Calibration Curve:	Linear Regression
Column:	Ascentis Express C18, 2.7 μ m, 3.0 x 100 mm	Number of Points:	4
Mobile Phase:	Acetonitrile:0.1% Phosphoric acid in Water (75:25)	Linearity (r) :	1.000
Flow Rate:	1.5 mL/min		
Wavelength:	215 nm		
		Verified Concentration (mg/mL)	%RSD - Homogeneity
Standard Solution	Lot Number	Actual Results	Actual Results
New Lot	FN09252110	1.004	0.5
Previous Lot	FE05081905	0.998	1.0
<ul style="list-style-type: none">Concentration is verified through multiple analyses and is calculated as the average of multiple analyses compared to an independently prepared calibration solution.Within-sample and between-sample homogeneity of the New Lot is ensured through rigorous production process controls statistically analyzed to evaluate risk and verified by analysis. Multiple samples pulled from across the lot using a random stratified sampling plan were analyzed to verify homogeneity. % RSD results shown above for the New Lot demonstrate ampoule-to-ampoule homogeneity.			

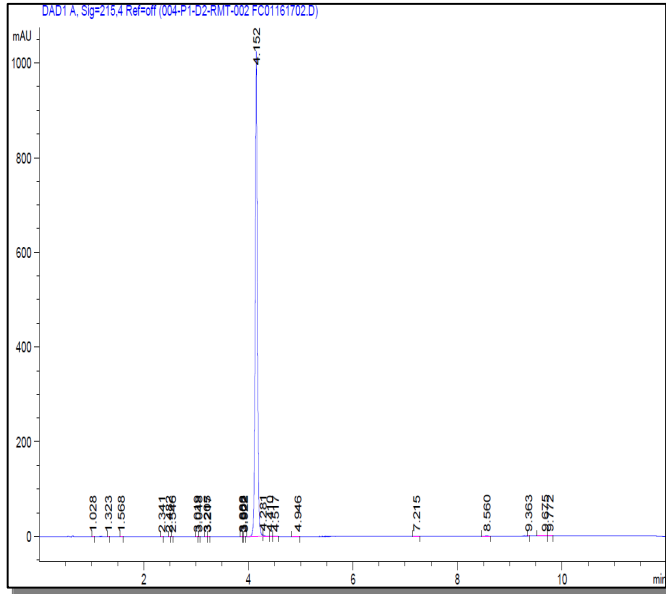
Analyte Certification - Mass Balance Purity Factor

Each analyte is thoroughly identified and characterized using an orthogonal approach. A mass balance purity factor is assigned incorporating chromatographic purity and residual impurities. The mass balance purity factor is utilized to calculate the weighing adjustment necessary to ensure accuracy of the solution standard concentration.

Material Name:	(-)-11-nor-9-Carboxy- Δ^9 -THC	Chemical Formula:	C ₂₁ H ₂₈ O ₄		
Material Lot:	FC01161702	CAS Number:	56354-06-4		
		Molecular Weight:	344.44		
Material Characterization Summary					
Analytical Test	Method	Results			
Primary Chromatographic Purity by HPLC/UV Analysis	20384348	99.6%			
Secondary Chromatographic Purity by LC/MS Analysis	20384217	> 99.9%			
Chiral Purity by HPLC/UV Analysis	20384348	99.9% ee			
Identity by GC/MS Analysis	20384214	Consistent with Structure			
Δ^8 -THC acid Determination by GC/MS Analysis	20384214	Not Detected			
Identity by ¹ H-NMR Analysis	20384224	Consistent with Structure			
Residual Solvent Analysis by GC/FID Headspace	20397799 ¹	Below Quantitation Limit			
Residual Water Analysis by Karl Fischer Coulometry	20398075 ¹	Below Quantitation Limit			
Elemental Analysis	Outsourced		Calculated	Analyzed	
		C	73.23%	73.18%	
		H	8.19%	8.28%	
Inorganic Content by Microash Analysis	20384350	< 0.2%			
Mass Balance Purity Factor		99.56%			
¹ Validated analytical method <ul style="list-style-type: none">The primary chromatographic purity is calculated as the average of two independently performed analyses utilizing two different methods. Acceptance criteria requires the purity values to be within 0.5% of each other.The primary purity method was selected to optimize resolution of impurities while minimizing degradation of the analyte. Secondary purity methods with orthogonal detector capabilities from the primary purity method are used as controls to confirm an accurate purity value.The primary chromatographic purity value is used to calculate the Mass Balance Purity Factor.A secondary chromatographic purity method is utilized as a control.Mass Balance Purity Factor = [(100 - wt% residual solvent - wt% residual water - wt% residual inorganics) x Chromatographic Purity/100].Mass Balance Purity Factor does not include adjustment for chiral and/or isotopic purity.					

Spectral and Physical Data

HPLC/UV



Column: Ascentis Express C18, 2.7 μ m, 3.0 x 100 mm
Mobile Phase: A: Acetonitrile
 B: 0.1% Phosphoric acid in Water
Gradient:

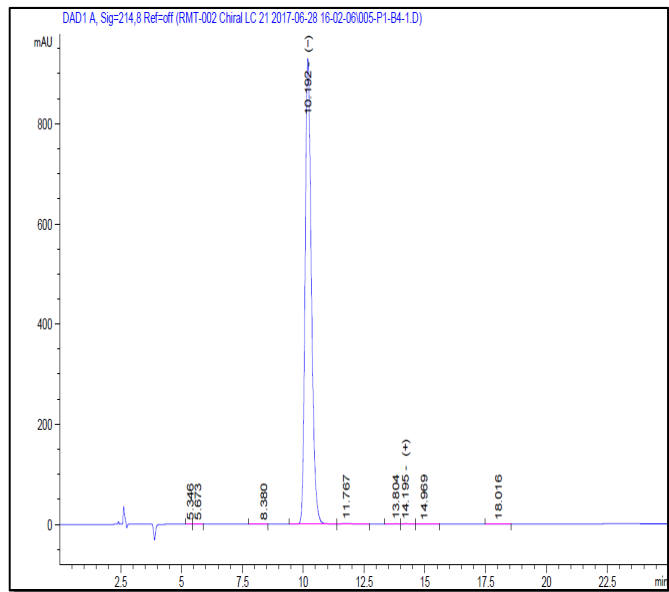
Time (min)	% A	% B
0.0	55	45
8.0	90	10
10.0	90	10
10.1	55	45

Flow Rate: 0.6 mL/min
Wavelength: 215 nm
Sample Name: FC01161702
Acquired: October 22, 2020

Peak #	Ret Time	Area %
1	1.03	0.00
2	1.32	0.00
3	1.57	0.00
4	2.34	0.00
5	2.48	0.00
6	2.55	0.00
7	3.02	0.00
8	3.05	0.00
9	3.21	0.01
10	3.22	0.01
11	3.89	0.00
12	3.90	0.00
13	3.92	0.00
14	4.15	99.59
15	4.28	0.21
16	4.41	0.01
17	4.52	0.03
18	4.95	0.01
19	7.22	0.01
20	8.56	0.06
21	9.36	0.00
22	9.68	0.02
23	9.77	0.01

Spectral and Physical Data (cont.)

Chiral Purity by HPLC/UV

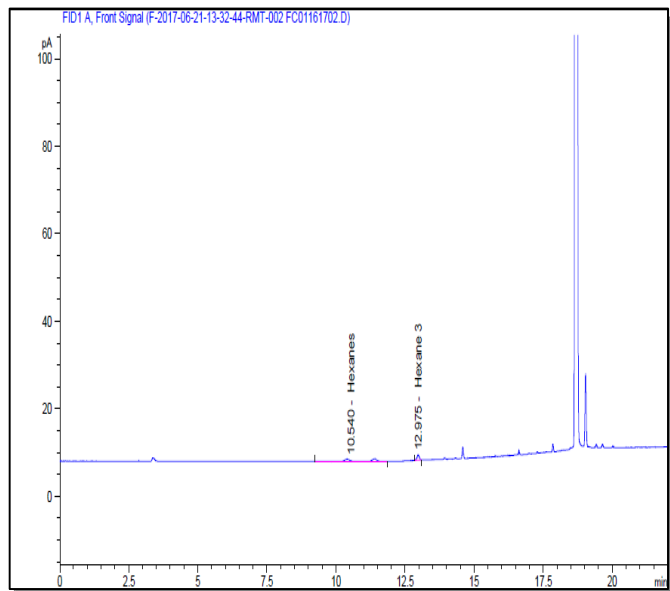


Column: Astec Cellulose DMP, 5 µm,
4.6 x 250 mm
Mobile Phase: Hexane:Ethanol:Trifluoroacetic acid
(95:5:0.1)
Flow Rate: 1.2 mL/min
Wavelength: 214 nm
Sample Name: FC01161702
Acquired: June 28, 2017

Peak #	Ret Time	Area %	
1	5.35	0.00	
2	5.67	0.01	
3	8.38	0.01	
4	10.19	99.71	(-)-THC acid
5	11.77	0.16	
6	13.80	0.04	
7	14.20	0.04	(+)-THC acid
8	14.97	0.02	
9	18.02	0.02	

% ee = 99.92%

Residual Solvent Analysis by GC/FID Headspace



Column: DB-ALC1 30 m x 0.53 mm,
3 µm film thickness
Temp Program: 40°C hold 12 min to 220°C at
40°C/min hold 5.5 min
Carrier Gas: Helium
Flow Rate: 2.0 mL/min
Detector Heater Temp: 250°C
Injector: Headspace Sampler
HS Oven Temp: 60°C
Vial Equilibration: 10 minutes

Sample Name: FC01161702
Acquired: June 21, 2017

Peak	Compound	Area	Weight %
1	Hexanes	22.64	BQL
2	NMP	NA	NA
Total			BQL

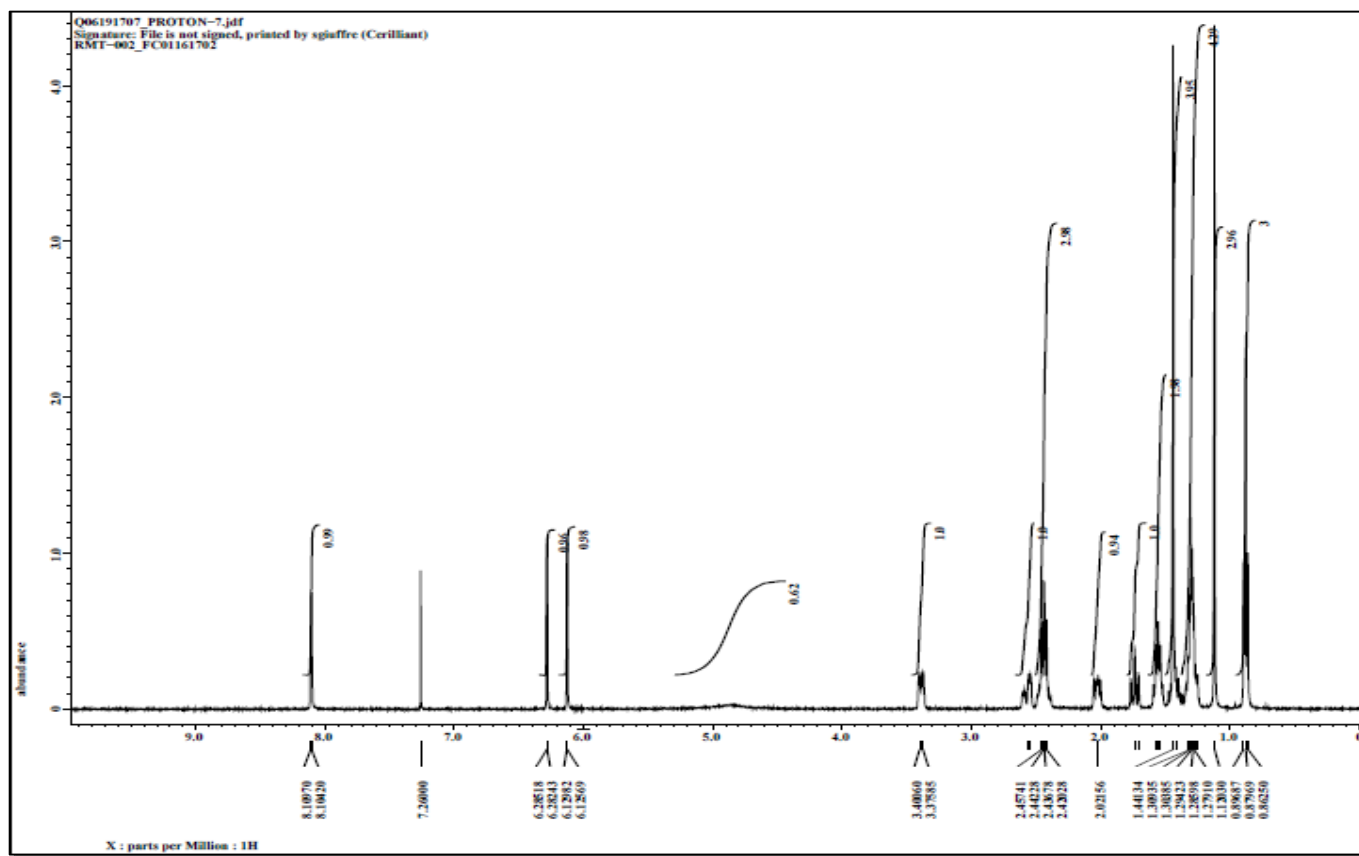
BQL - Below Quantitation Limit

Spectral and Physical Data (cont.)

^1H NMR

Instrument: JEOL ECS 400

Solvent: Chloroform-D



Spectral and Physical Data (cont.)

LC/MS

Column: Ascentis Express C18, 2.7 µm,
3.0 x 50 mm

Mobile Phase: A: 0.1% Formic acid in Water
B: Acetonitrile

Gradient:	Time (min)	% A	% B
	0.0	50	50
	4.0	10	90
	9.5	10	90
	11.0	50	50
	12.0	50	50

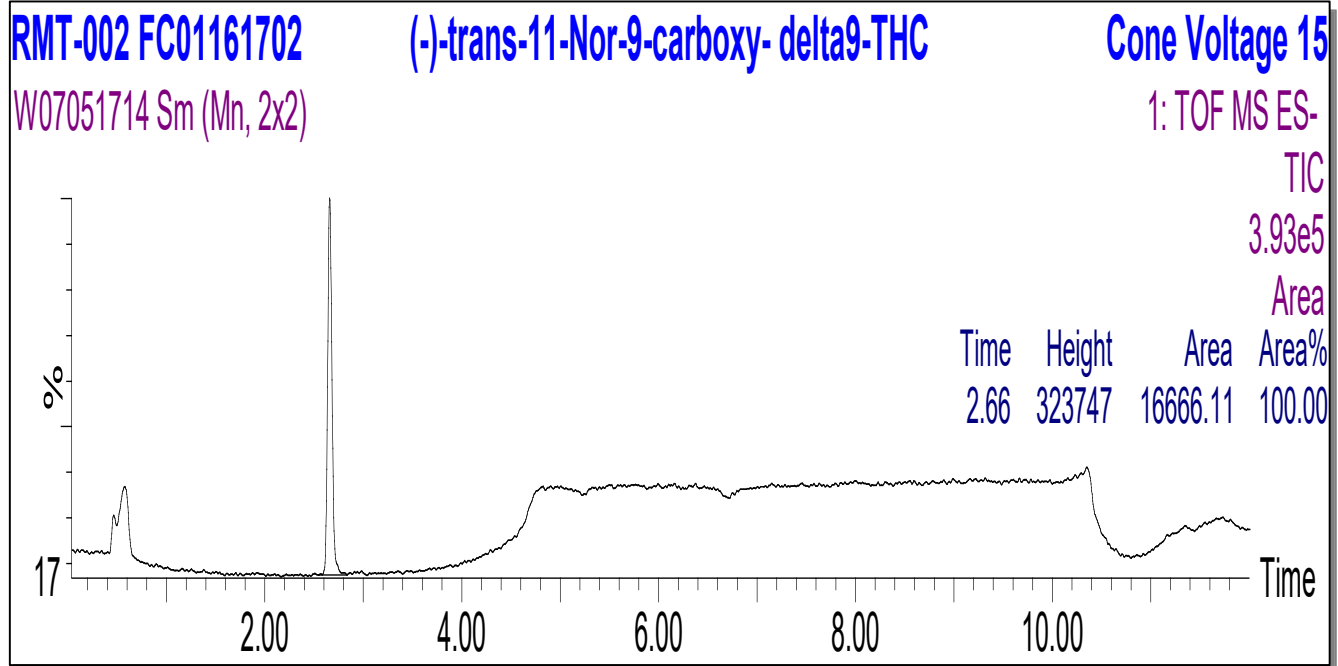
Flow Rate: 0.4 mL/min

Scan Range: 100-1200 amu

Ionization: Electrospray, Negative Ion

Instrument: Waters XEVO G2 QTOF

Acquired: July 05, 2017



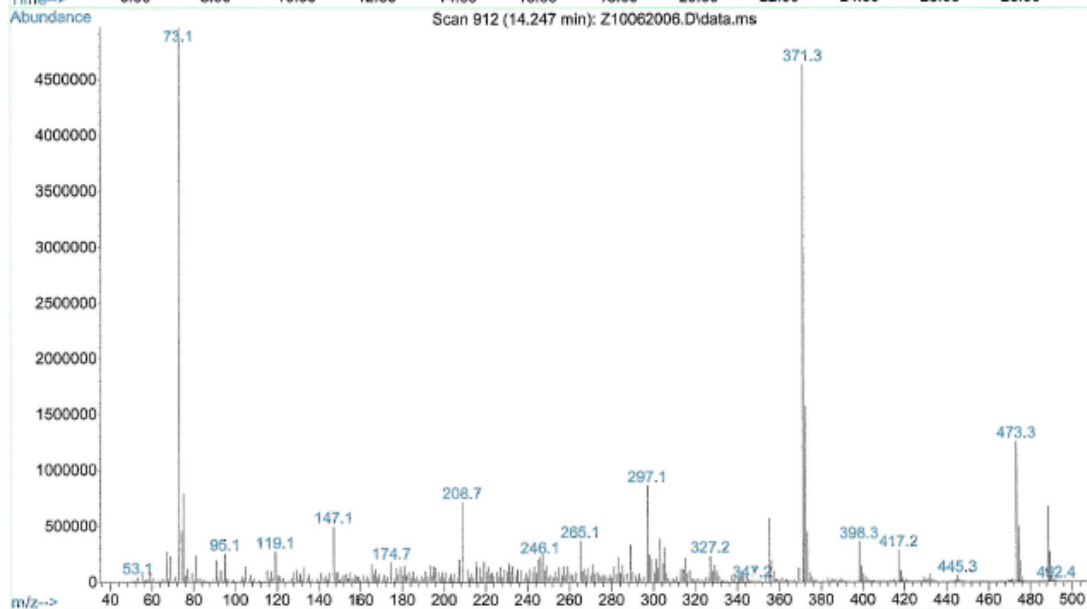
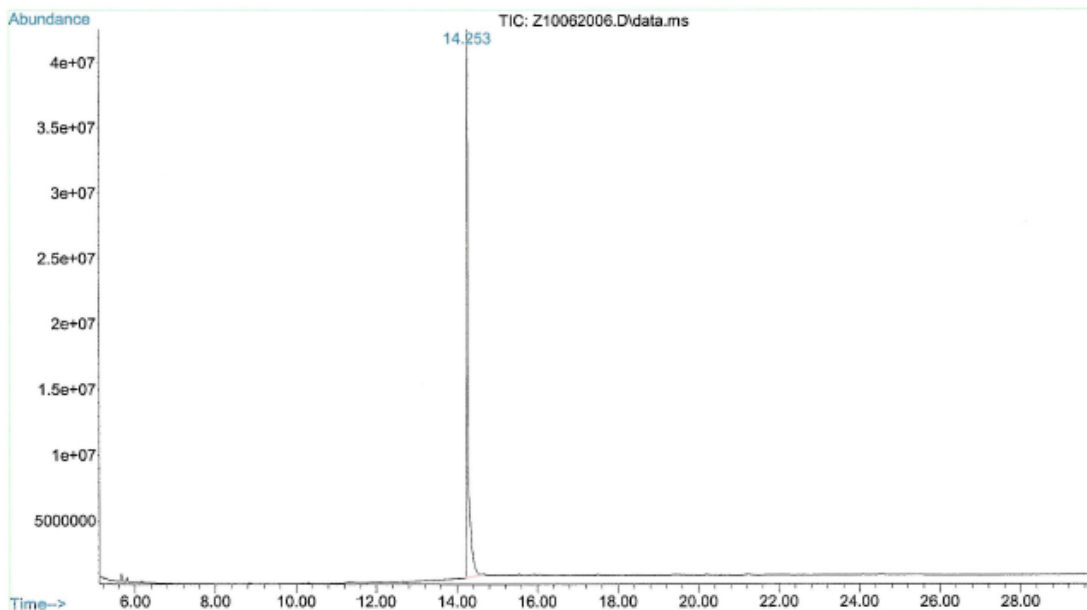
Spectral and Physical Data (cont.)

GC/MS

Column: SLB-5ms, 30 m x 0.25 mm ID,
0.25 µm film thickness
Temp Program: 50°C to 200°C at 40°C/min
200°C to 300°C at 10°C/min
hold 16 min

Scan Range: 50-500 amu
Instrument: Agilent 597X GCMS
Acquired: October 06, 2020

File :D:\MassHunter\Data\2020\10062020\Z10062006.D
Operator : GLOBAL\sgiufrre
Acquired : 06 Oct 2020 09:01 using AcqMethod ERM_GCMS4.M
Instrument : GCMS 4
Sample Name: Trans-11-nor-9-carboxy-delta9-THC
Misc Info : FC01161702
Vial Number: 73



Stability

Short term stability studies have been performed in multiple storage conditions for a period of up to four weeks. Short term data is utilized to support transport conditions and normal laboratory use. Real-time stability studies are performed at the recommended storage conditions over the life of the product.

Short Term Stability: A summary of stability findings for this product is listed below.

Storage Condition	Targeted Mean Kinetic Temperature (MKT)	Time Period/Result
Freezer	-20°C	No decrease in purity was noted after four weeks.
Refrigerator	5°C	
Room Temperature	20°C	
40°C	40°C	

Transport/Shipping: Stability studies support the transport of this product at ambient conditions.

Long Term Stability: Long term stability has been assessed for Freezer storage (-10 °C to -25 °C) conditions. Stability of a minimum of 60 months has been established through real-time stability studies.

Commutability

This standard is a solution of a pure substance in an organic solvent and is a Primary Standard. This Primary Standard is suitable for use in the preparation of calibrators and/or controls in any biological matrix. This standard is not in a biological matrix and therefore commutability to methods or standards in biological matrices does not apply.

COA Revision History

Revision No.	Date	Reason for Revision
00	March 30, 2022	Initial version.

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The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the US and Canada.

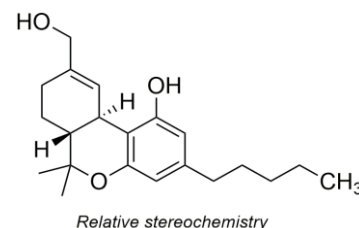


Certified Reference Material - Certificate of Analysis

(±)-11-Hydroxy- Δ^9 -THC, Primary Measurement Standard

(6aR,10aR)-rel-6a,7,8,10a-tetrahydro-1-hydroxy-6,6-dimethyl-3-pentyl-6H-dibenzo[b,d]pyran-9-methanol

Product No.: H-027-1ML
Lot No.: FE09182008
Description of CRM: (±)-11-Hydroxy- Δ^9 -THC in Methanol (Solution)
Retest Date: June 2023 See Section "Stability Assessment".
Storage: Store unopened in freezer (-10 °C to -25 °C).
Shipping: Ambient. See Section "Stability Assessment".
Chemical formula: C₂₁H₃₀O₃
CAS No.: 34675-49-5
Regulatory: USDEA Exempt | Canadian TK # 61-1222



Analyte

Certified Concentration ± associated uncertainty U , $u = k * u$ ($k=2$)

(±)-11-Hydroxy- Δ^9 -THC

1.000 ± 0.006 mg/mL

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. See "Details on metrological traceability" on page 2.

Measurement method: The certified value is calculated from high precision weighing of thoroughly characterized starting material. See "Details about certification process" on page 2.

Intended use: This Certified Reference Material is suitable for the in vitro identification, calibration, and quantification of the analyte(s) in analytical and R&D applications. Not suitable for human or animal consumption.

Minimum sample size: 1 µL for quantitative applications

Instructions for handling and correct use: Concentration is corrected for chromatographic purity, residual water, residual solvents, and residual inorganics. No adjustment required before use. Users should quantitatively transfer desired volume using established good laboratory practices to spike into matrix or to dilute to the desired concentration. Each ampoule is intended for one-time use.

Health and safety information: Danger. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Cerilliant Corp. is accredited by the US accreditation authority ANAB as registered reference material producer AR-1353 in accordance with ISO 17034 and registered testing laboratory AT-1352 according to ISO/IEC 17025.



Darron Ellsworth, Quality Assurance Manager

December 14, 2020

Issue Date

Cerilliant Corporation, 811 Paloma Drive, Suite A, Round Rock, TX, 78665, USA,
 Tel: 800-848-7837 / 512-238-9974; www.cerilliant.com
 Sigma-Aldrich Production GmbH is a subsidiary of Merck KGaA, Darmstadt, Germany.



Packaging:

2 mL amber USP Type 1 glass ampoule containing not less than 1 mL of certified solution. Ampoules are overfilled to ensure a minimum of 1 mL volume can be transferred when using a 1mL Class A volumetric pipette.

Details on starting materials:

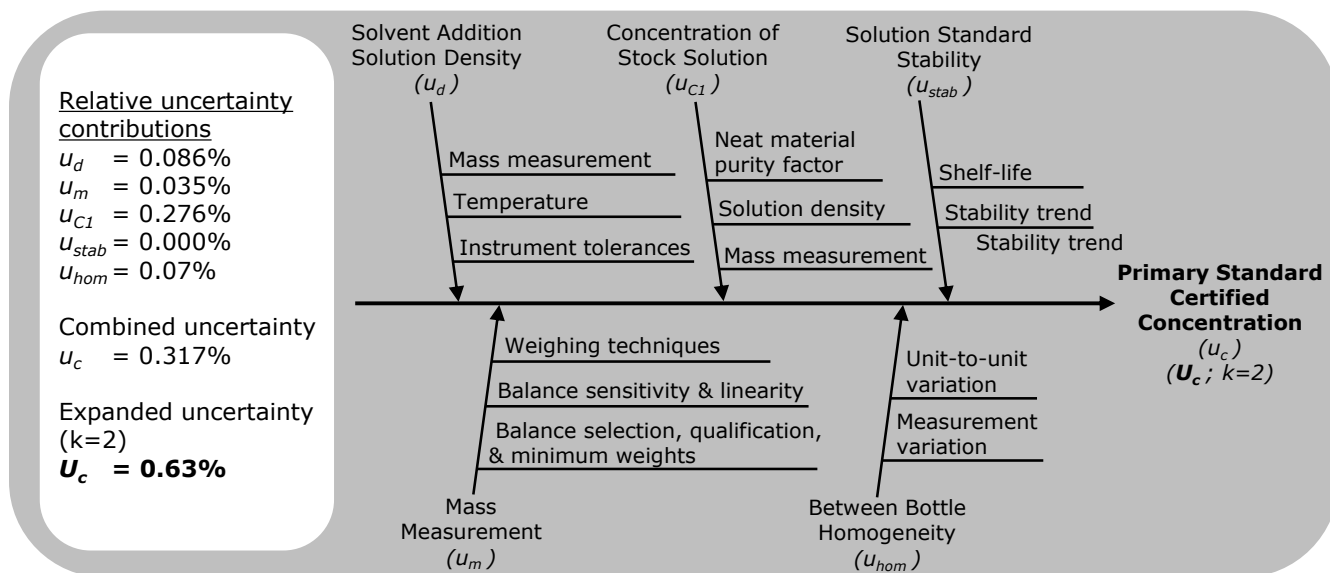
Each raw material utilized has been identified and thoroughly characterized through the use of multiple analytical techniques and is assigned a Mass Balance Purity Factor. Spectral data is provided on subsequent pages of this CoA.

Certificate of Origin:

Cerilliant Corporation certifies no material of animal origin (BSE/TSE) was used in the preparation of this product. This material is a product of the USA.

Associated uncertainty:

The uncertainty has been calculated by statistical analysis of all aspects of our production system and incorporated uncertainty of the mass balance purity factor, material density, balance, weighing technique, and homogeneity. Uncertainty components of the gravimetrically prepared Primary Standard concentration are shown in the figure below. Uncertainty is expressed as an expanded uncertainty in accordance with ISO 17034 at the approximate 95% confidence interval using a coverage factor of $k=2$. Uncertainty contribution from neat material homogeneity was established to be negligible through establishment of process controls and verification of the control process. Stability uncertainty was determined to be negligible by regression analysis.



Details on metrological traceability:

- ♦ This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error.
- ♦ Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances.
- ♦ The density and material Mass Balance Purity Factor of each raw material is traceable to the SI and higher order reference materials through mass measurement and instrument qualification and calibrations.

Details about certification process:

This standard has been prepared and certified under the ISO 17034, ISO/IEC 17025, and ISO 9001 standards. This standard meets the requirements of a Certified Reference Material and a Primary Standard as defined by ISO and is traceable to the SI and higher order standards through an unbroken chain of comparisons.

- ♦ Nominal concentration is calculated based on: the actual mass; Mass balance purity factor of the analyte(s); measured mass of the solution; and the density of the pure diluent at 20°C.
- ♦ Fill volume is gravimetrically verified throughout the dispensing process using qualified and calibrated balances.
- ♦ Concentration is verified against an independently prepared calibration solution gravimetrically prepared.
- ♦ Additional certification information available upon request.

Solution Standard Verification

Concentration accuracy and within- and between-bottle homogeneity are analytically verified against an independently prepared calibration solution and to the prior lot.

Standard Solution Assay Parameters		Calibration Curve	
Analysis Method:	HPLC/UV	Calibration Curve:	Linear Regression
Column:	Ascentis Express C18, 2.7 µm, 3.0 x 50 mm	Number of Points:	4
Mobile Phase:	Acetonitrile:0.1% Phosphoric acid in Water (75:25)	Linearity (r) :	1.000
Flow Rate:	1.2 mL/min		
Wavelength:	225 nm		
		Verified Concentration (mg/mL)	%RSD - Homogeneity
Standard Solution	Lot Number	Actual Results	Actual Results
New Lot	FE09182008	1.007	0.7
Previous Lot	FE06152003	1.011	0.9
<ul style="list-style-type: none">Concentration is verified through multiple analyses and is calculated as the average of multiple analyses compared to an independently prepared calibration solution.Within-sample and between-sample homogeneity of the New Lot is ensured through rigorous production process controls statistically analyzed to evaluate risk and verified by analysis. Multiple samples pulled from across the lot using a random stratified sampling plan were analyzed to verify homogeneity. % RSD results shown above for the New Lot demonstrate ampoule-to-ampoule homogeneity.			

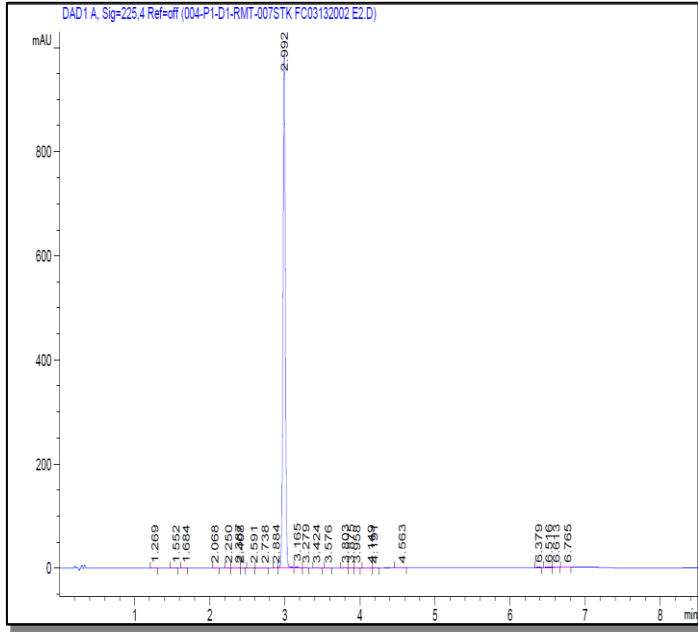
Analyte Certification - Mass Balance Purity Factor

Each analyte is thoroughly identified and characterized using an orthogonal approach. A mass balance purity factor is assigned incorporating chromatographic purity and residual impurities. The mass balance purity factor is utilized to calculate the weighing adjustment necessary to ensure accuracy of the solution standard concentration.

Material Name:	(±)-11-Hydroxy-Δ ⁹ -THC	Chemical Formula:	C ₂₁ H ₃₀ O ₃
Material Lot:	FC03132002	CAS Number:	34675-49-5
		Molecular Weight:	330.46
Material Characterization Summary			
Analytical Test	Method	Results	
Primary Chromatographic Purity by HPLC/UV Analysis	SP10-0102	99.2%	
Secondary Purity by Thin Layer Chromatography Analysis	SP10-0106	Single Spot, R _f = 0.43	
Identity by GC/MS Analysis	SP10-0105	Consistent with Structure	
Identity by ¹ H-NMR Analysis	SP10-0116	Consistent with Structure	
Residual Solvent Analysis by GC/FID Headspace	AM1087 ¹	2.05%	
Residual Water Analysis by Karl Fischer Coulometry	AM1346 ¹	Below Quantitation Limit	
Mass Balance Purity Factor		97.12%	
<div>¹ Validated analytical method<ul style="list-style-type: none">• The primary chromatographic purity is calculated as the average of two independently performed analyses utilizing two different methods. Acceptance criteria requires the purity values to be within 0.5% of each other.• The primary purity method was selected to optimize resolution of impurities while minimizing degradation of the analyte. Secondary purity methods with orthogonal detector capabilities from the primary purity method are used as controls to confirm an accurate purity value.• The primary chromatographic purity value is used to calculate the Mass Balance Purity Factor.• A secondary chromatographic purity method is utilized as a control.• Mass Balance Purity Factor = [(100 - wt% residual solvent - wt% residual water - wt% residual inorganics) x Chromatographic Purity/100].• Mass Balance Purity Factor does not include adjustment for chiral and/or isotopic purity.</div>			

Spectral and Physical Data

HPLC/UV



Column: Ascentis Express C18, 2.7 μ m, 3.0 x 50 mm

Mobile Phase: A: Acetonitrile
B: 0.1% Phosphoric acid in Water

Gradient:

Time (min)	% A	% B
0.0	45	55
5.0	90	10
6.0	90	10
6.1	45	55

Flow Rate: 0.8 mL/min

Wavelength: 225 nm

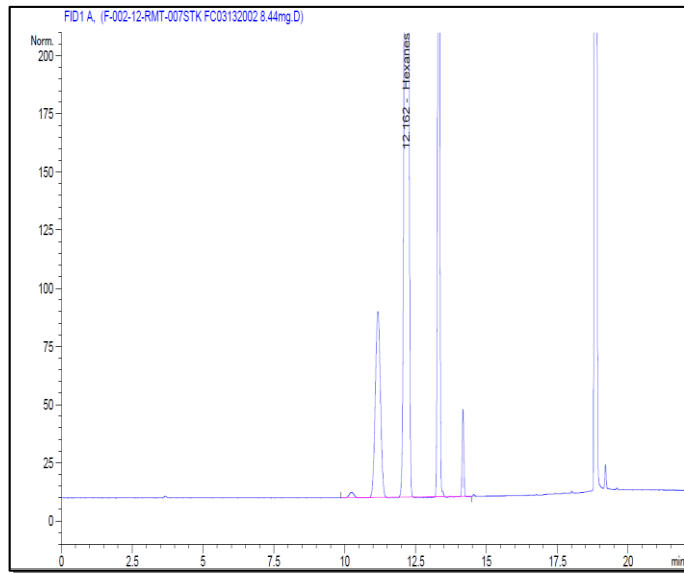
Sample Name: FC03132002

Acquired: May 28, 2020

Peak #	Ret Time	Area %
1	1.27	0.00
2	1.55	0.01
3	1.68	0.01
4	2.07	0.01
5	2.25	0.01
6	2.39	0.06
7	2.41	0.03
8	2.59	0.01
9	2.74	0.02
10	2.88	0.06
11	2.99	99.25
12	3.17	0.27
13	3.28	0.04
14	3.42	0.05
15	3.58	0.01
16	3.80	0.05
17	3.88	0.01
18	3.96	0.01
19	4.15	0.01
20	4.19	0.01
21	4.56	0.02
22	6.38	0.02
23	6.52	0.02
24	6.61	0.01
25	6.77	0.02

Spectral and Physical Data (cont.)

Residual Solvent Analysis by GC/FID Headspace



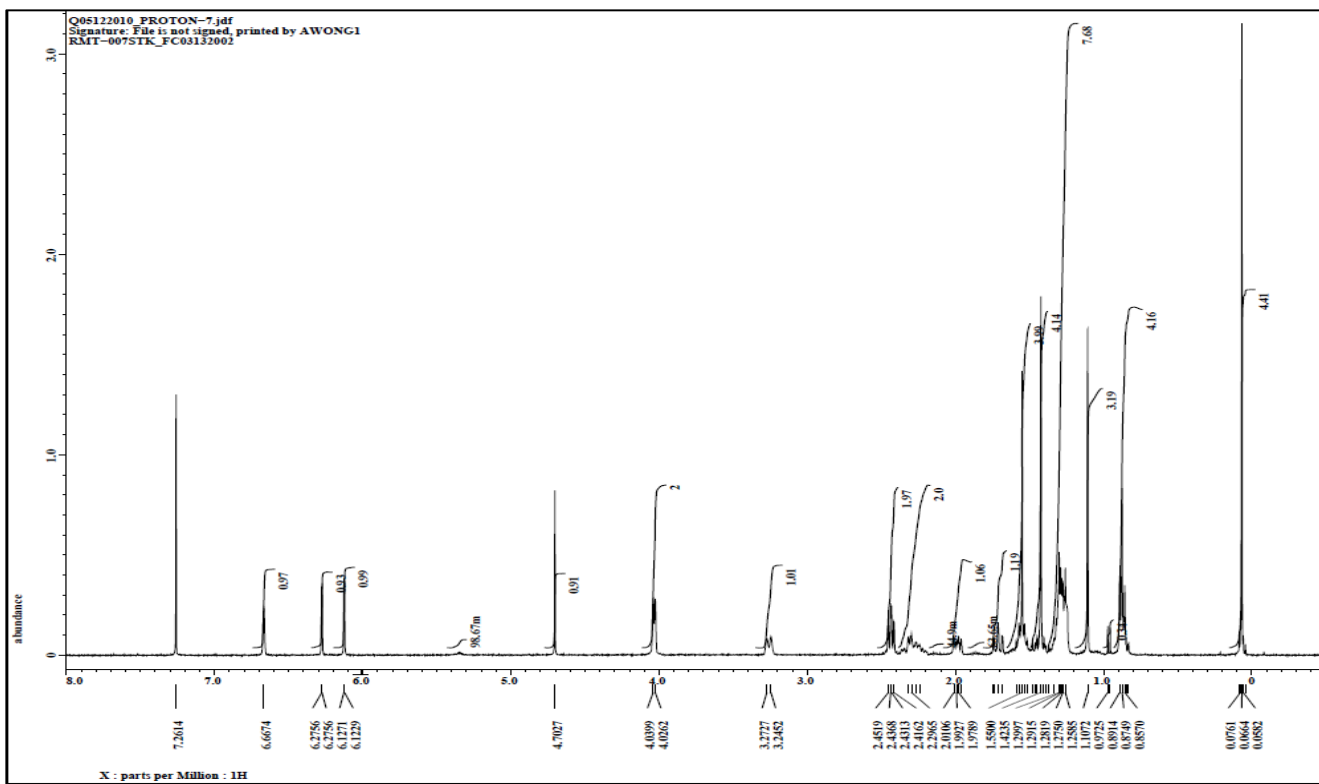
Column: DB-ALC1 30 m x 0.53 mm, 3 µm film thickness
Temp Program: 40°C hold 12 min to 220°C at 40°C/min hold 5.5 min
Carrier Gas: Helium
Flow Rate: 2.0 mL/min
Detector Heater Temp: 250°C
Injector: Headspace Sampler
HS Oven Temp: 60°C
Vial Equilibration: 10 minutes

Sample Name: FC03132002
Acquired: May 20, 2020

Peak	Compound	Area	Weight %
1	Hexanes	7132.00	2.05
2	NMP	NA	NA
Total			2.05

¹H NMR

Instrument: JEOL ECS 400
Solvent: Chloroform-D

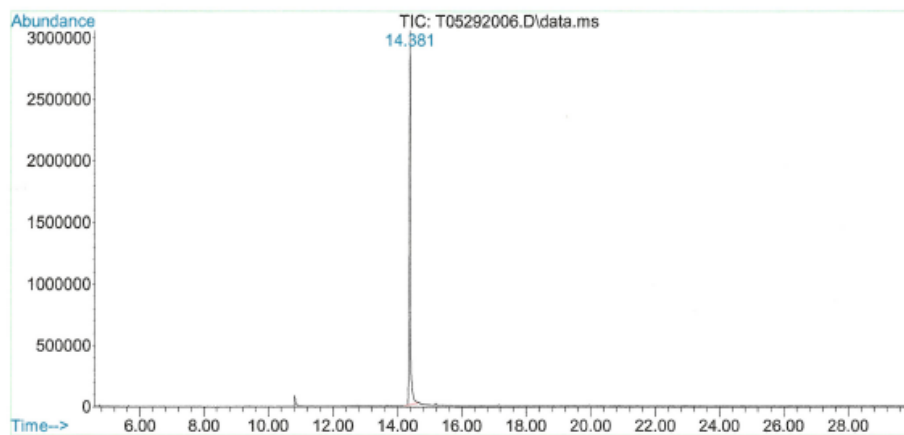


Spectral and Physical Data (cont.)

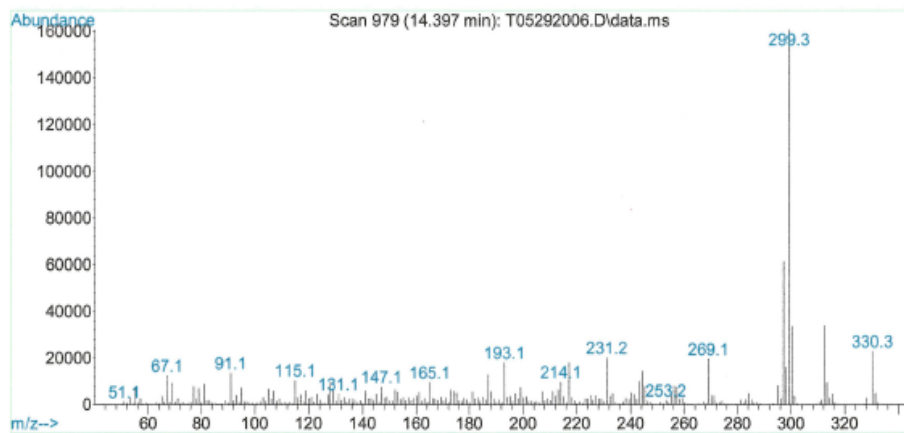
GC/MS

Compound Name : (±)-11-Hydroxy-delta9-THC
Lot Number : FC03132002
Instrument : Agilent GCMS
Operator : ECM(SGIUFFRE)
Date Reported : Fri May 29 10:44:20 2020
Column Type : DB-5ms, 30m x 0.25mm ID, 0.25um film thickness
Temp. Program : 50°C to 200°C@40°C/min, 200°C to 300°C@10°C/min, 16min hold
Injector Temp. : Cool on-column
Carrier Gas : Helium
Flow Rate (mL/min) : 0.80 mL/min
Transfer Line Temp. : 280°C
Scan Range : 50-500

Total Ion Chromatogram



Mass Spectrum



Stability

Short term stability studies have been performed in multiple storage conditions for a period of up to four weeks. Short term data is utilized to support transport conditions and normal laboratory use. Real-time stability studies are performed at the recommended storage conditions over the life of the product.

Short Term Stability: A summary of stability findings for this product is listed below.

Storage Condition	Mean Kinetic Temperature (MKT)	Time Period/Result
Freezer	-15°C	No decrease in purity was noted after four weeks.
Refrigerator	4°C	
Room Temperature	21°C	
40°C	40°C	

Transport/Shipping: Stability studies support the transport of this product at ambient conditions.

Long Term Stability: Long term stability has been assessed for Freezer storage (-10 °C to -25 °C) conditions. Stability of a minimum of 20 months has been established through real-time stability studies.

Commutability

This standard is a solution of a pure substance in an organic solvent and is a Primary Standard. This Primary Standard is suitable for use in the preparation of calibrators and/or controls in any biological matrix. This standard is not in a biological matrix and therefore commutability to methods or standards in biological matrices does not apply.

COA Revision History

Revision No.	Date	Reason for Revision
00	December 14, 2020	Initial version.

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The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the US and Canada.

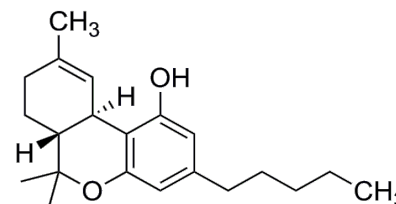


Certified Reference Material - Certificate of Analysis

(-)- Δ^9 -THC, Primary Measurement Standard

(6aR,10aR)-6a,7,8,10a-tetrahydro-6,6,9-trimethyl-3-pentyl-6H-dibenzo[b,d]pyran-1-ol

Product No.: T-005S-1ML
Lot No.: FE09162102
Description of CRM: (-)- Δ^9 -THC in Methanol (Solution)
Expiration Date: March 2027 See Stability Section
Storage: Store unopened in freezer (-10 °C to -25 °C).
Shipping: Ambient. See Stability Section
Chemical formula: C₂₁H₃₀O₂
CAS No.: 1972-08-3
Regulatory: USDEA Exempt



Analyte	Certified Concentration \pm associated uncertainty U , $u = k * u$ ($k=2$)
(-)- Δ^9 -THC	1.000 \pm 0.006 mg/mL
Metrological traceability:	Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. See "Details on metrological traceability" on page 3.
Measurement method:	The certified value is calculated from high precision weighing of thoroughly characterized starting material. See "Details about certification process" on page 3.
Intended use:	This Certified Reference Material is suitable for the in vitro identification, calibration, and quantification of the analyte(s) in analytical and R&D applications. Not suitable for human or animal consumption.
Minimum sample size:	1 μ L for quantitative applications
Instructions for handling and correct use:	Concentration is corrected for chromatographic purity, residual water, residual solvents, and residual inorganics. No adjustment required before use. Users should quantitatively transfer desired volume using established good laboratory practices to spike into matrix or to dilute to the desired concentration. Each ampoule is intended for one-time use.
Health and safety information:	Danger. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.
Accreditation:	Cerilliant Corp. is accredited by the US accreditation authority ANAB as registered reference material producer AR-1353 in accordance with ISO 17034 and registered testing laboratory AT-1352 according to ISO/IEC 17025.



Darron Ellsworth, Quality Assurance Manager

May 05, 2022

Issue Date

Cerilliant Corporation, 811 Paloma Drive, Suite A, Round Rock, TX, 78665, USA,
 Tel: 800-848-7837 / 512-238-9974; www.cerilliant.com
 Sigma-Aldrich Production GmbH is a subsidiary of Merck KGaA, Darmstadt, Germany.



Packaging:

2 mL amber USP Type 1 glass ampoule containing not less than 1 mL of certified solution. Ampoules are overfilled to ensure a minimum of 1 mL volume can be transferred when using a 1mL Class A volumetric pipette.

Details on starting materials:

Each raw material utilized has been identified and thoroughly characterized through the use of multiple analytical techniques and is assigned a Mass Balance Purity Factor. Spectral data is provided on subsequent pages of this CoA.

Certificate of Origin:

Cerilliant Corporation certifies no material of animal origin (BSE/TSE) was used in the preparation of this product. This material is a product of the USA.

Associated uncertainty:

The uncertainty has been calculated by statistical analysis of all aspects of our production system and incorporated uncertainty of the mass balance purity factor, material density, balance, weighing technique, and homogeneity. Uncertainty components of the gravimetrically prepared Primary Standard concentration are shown in the figure below. Uncertainty is expressed as an expanded uncertainty in accordance with ISO 17034 at the approximate 95% confidence interval using a coverage factor of $k=2$. Uncertainty contribution from neat material homogeneity was established to be negligible through establishment of process controls and verification of the control process. Stability uncertainty was determined to be negligible by regression analysis.

Relative uncertainty contributions

$$u_d = 0.086\%$$

$$u_m = 0.035\%$$

$$u_{C1} = 0.276\%$$

$$u_{stab} = 0.000\%$$

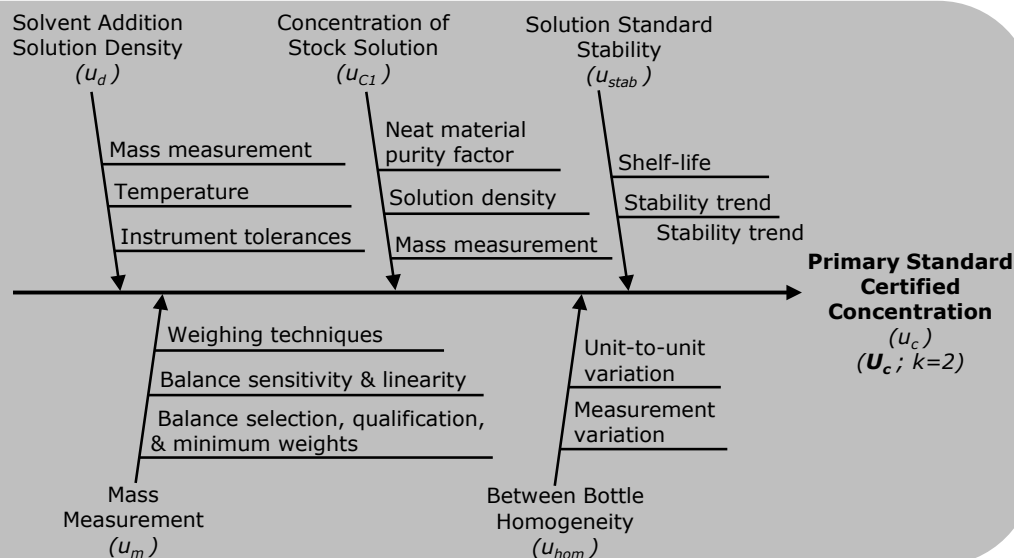
$$u_{hom} = 0.07\%$$

Combined uncertainty

$$u_c = 0.317\%$$

Expanded uncertainty
($k=2$)

$$U_c = 0.63\%$$



Details on metrological traceability:

- ♦ This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error.
- ♦ Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances.
- ♦ The density and material Mass Balance Purity Factor of each raw material is traceable to the SI and higher order reference materials through mass measurement and instrument qualification and calibrations.

Details about certification process:

This standard has been prepared and certified under the ISO 17034, ISO/IEC 17025, and ISO 9001 standards. This standard meets the requirements of a Certified Reference Material and a Primary Standard as defined by ISO and is traceable to the SI and higher order standards through an unbroken chain of comparisons.

- ♦ Nominal concentration is calculated based on: the actual mass; Mass balance purity factor of the analyte(s); measured mass of the solution; and the density of the pure diluent at 20°C.
- ♦ Fill volume is gravimetrically verified throughout the dispensing process using qualified and calibrated balances.
- ♦ Concentration is verified against an independently prepared calibration solution gravimetrically prepared.
- ♦ Additional certification information available upon request.

Solution Standard Verification

Concentration accuracy and within- and between-bottle homogeneity are analytically verified against an independently prepared calibration solution and to the prior lot.

Standard Solution Assay Parameters		Calibration Curve	
Analysis Method:	HPLC/UV	Calibration Curve:	Linear Regression
Column:	Luna C18, 3 μm, 4.6 x 150 mm	Number of Points:	4
Mobile Phase:	Methanol:Water:Tetrahydrofuran (71:24:5)	Linearity (r) :	1.000
Flow Rate:	1.0 mL/min		
Wavelength:	228 nm		
		Verified Concentration (mg/mL)	%RSD - Homogeneity
Standard Solution	Lot Number	Actual Results	Actual Results
New Lot	FE09162102	0.990	0.3
Previous Lot	FE05252135	0.988	0.1
<ul style="list-style-type: none">Concentration is verified through multiple analyses and is calculated as the average of multiple analyses compared to an independently prepared calibration solution.Within-sample and between-sample homogeneity of the New Lot is ensured through rigorous production process controls statistically analyzed to evaluate risk and verified by analysis. Multiple samples pulled from across the lot using a random stratified sampling plan were analyzed to verify homogeneity. % RSD results shown above for the New Lot demonstrate ampoule-to-ampoule homogeneity.			
Standard Solution	Lot Number	Verified Concentration (mg/mL) against USP Standard by HPLC Analysis	
New Lot	FE09162102	1.015	
<ul style="list-style-type: none">Concentration is verified against an independently prepared calibration solution using USP Standard 1651621 Lot R045H0			

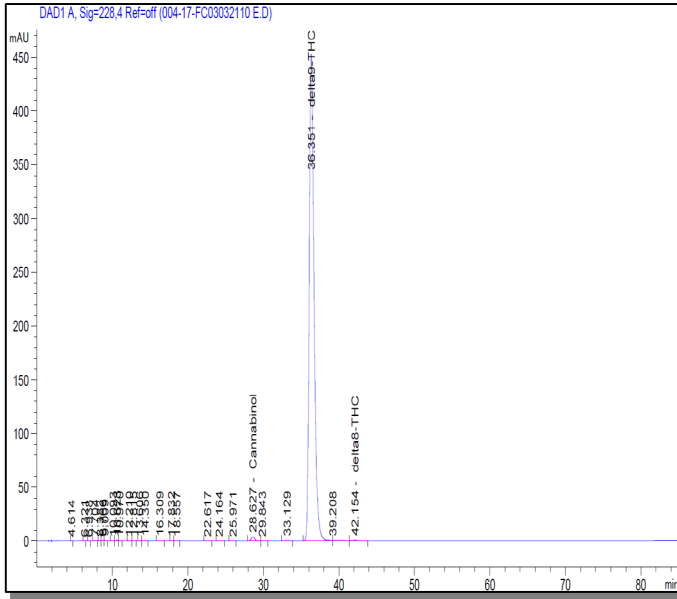
Analyte Certification - Mass Balance Purity Factor

Each analyte is thoroughly identified and characterized using an orthogonal approach. A mass balance purity factor is assigned incorporating chromatographic purity and residual impurities. The mass balance purity factor is utilized to calculate the weighing adjustment necessary to ensure accuracy of the solution standard concentration.

Material Name:	(-)-Δ ⁹ -THC	Chemical Formula:	C ₂₁ H ₃₀ O ₂
Material Lot:	FC03032110	CAS Number:	1972-08-3
		Molecular Weight:	314.46
Material Characterization Summary			
Analytical Test	Method	Results	
Chromatographic Purity by HPLC/UV Analysis	20397996	98.9% ¹	
exo-THC Determination by GC/FID Analysis	20397988	0.1%	
Identity by GC/MS Analysis	20384214	Consistent with Structure	
Identity by ¹ H-NMR Analysis	20384224	Consistent with Structure	
Residual Solvent Analysis by GC/FID Headspace	20397799 ²	0.17%	
Residual Water Analysis by Karl Fischer Coulometry	20398075 ²	0.32%	
Mass Balance Purity Factor		98.40%	
¹ Purity value adjusted for known impurities as shown on the trace below. ² Validated analytical method <ul style="list-style-type: none">♦ The chromatographic purity value is used to calculate the Mass Balance Purity Factor.♦ Mass Balance Purity Factor = [(100 - wt% residual solvent - wt% residual water - wt% residual inorganics) x Chromatographic Purity/100].♦ Mass Balance Purity Factor does not include adjustment for chiral and/or isotopic purity.			

Spectral and Physical Data

HPLC/UV



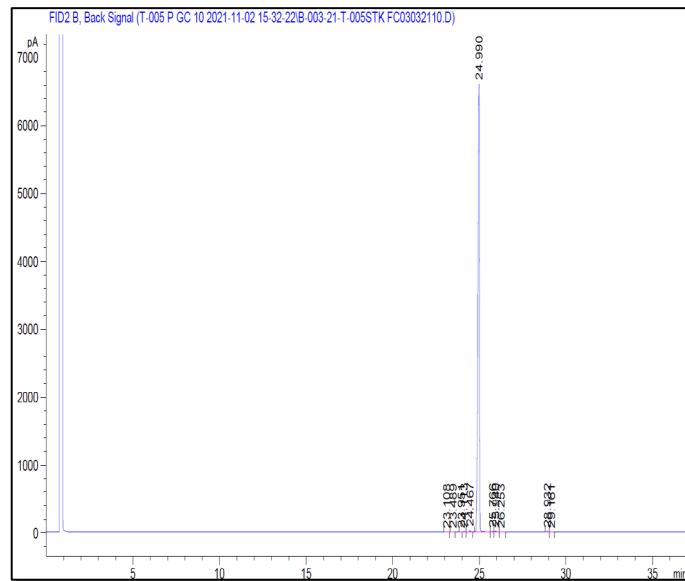
Column: Luna C18, 3 μ m, 4.6 x 150 mm
Mobile Phase: Methanol:Water:Tetrahydrofuran (71:24:5)
Flow Rate: 1.0 mL/min
Wavelength: 228 nm

Sample Name: FC03032110
Acquired: January 05, 2022

Peak #	Ret Time	Area %	
1	4.61	0.00	
2	6.32	0.00	
3	6.94	0.00	
4	7.70	0.03	
5	8.38	0.01	
6	8.77	0.04	
7	9.01	0.04	
8	10.09	0.01	
9	10.62	0.05	
10	10.97	0.02	
11	12.21	0.01	
12	12.82	0.01	
13	13.61	0.00	
14	14.35	0.03	
15	16.31	0.04	
16	17.83	0.00	
17	18.56	0.01	
18	22.62	0.03	
19	24.16	0.01	
20	25.97	0.03	
21	28.63	0.66	Cannabinol
22	29.84	0.01	
23	33.13	0.08	
24	36.35	98.45	(-)- Δ^9 -THC
25	39.21	0.23	
26	42.15	0.18	(-)- Δ^8 -THC

Spectral and Physical Data (cont.)

exo-THC by GC/FID

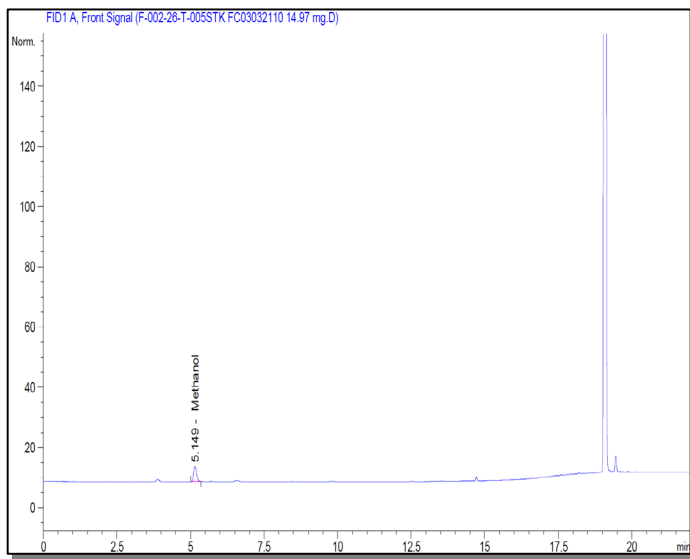


Column: DB-35ms, 30 m x 0.53 mm ID,
1.0 µm film thickness
Temp Program: 60°C to 200°C at 10°C/min
200°C to 280°C at 5°C /min
hold 7 min
Injector Temp: Cool-on-Column
Detector Temp: 325°C

Sample Name: FC03032110
Acquired: November 02, 2021

Peak #	Ret Time	Area %	
1	23.11	0.02	
2	23.49	0.02	
3	23.95	0.01	
4	24.11	0.12	exo-THC
5	24.47	0.24	(-)-Δ ⁸ -THC
6	24.99	99.33	(-)-Δ ⁹ -THC
7	25.77	0.03	
8	25.94	0.14	
9	26.25	0.03	
10	28.93	0.03	
11	29.16	0.01	

Residual Solvent Analysis by GC/FID Headspace



Column: DB-ALC1 30 m x 0.53 mm,
3 µm film thickness
Temp Program: 40°C hold 12 min to 220°C at
40°C/min hold 5.5 min
Carrier Gas: Helium
Flow Rate: 2.0 mL/min
Detector Heater Temp: 250°C
Injector: Headspace Sampler
HS Oven Temp: 60°C
Vial Equilibration: 10 minutes

Sample Name: FC03032110
Acquired: November 03, 2021

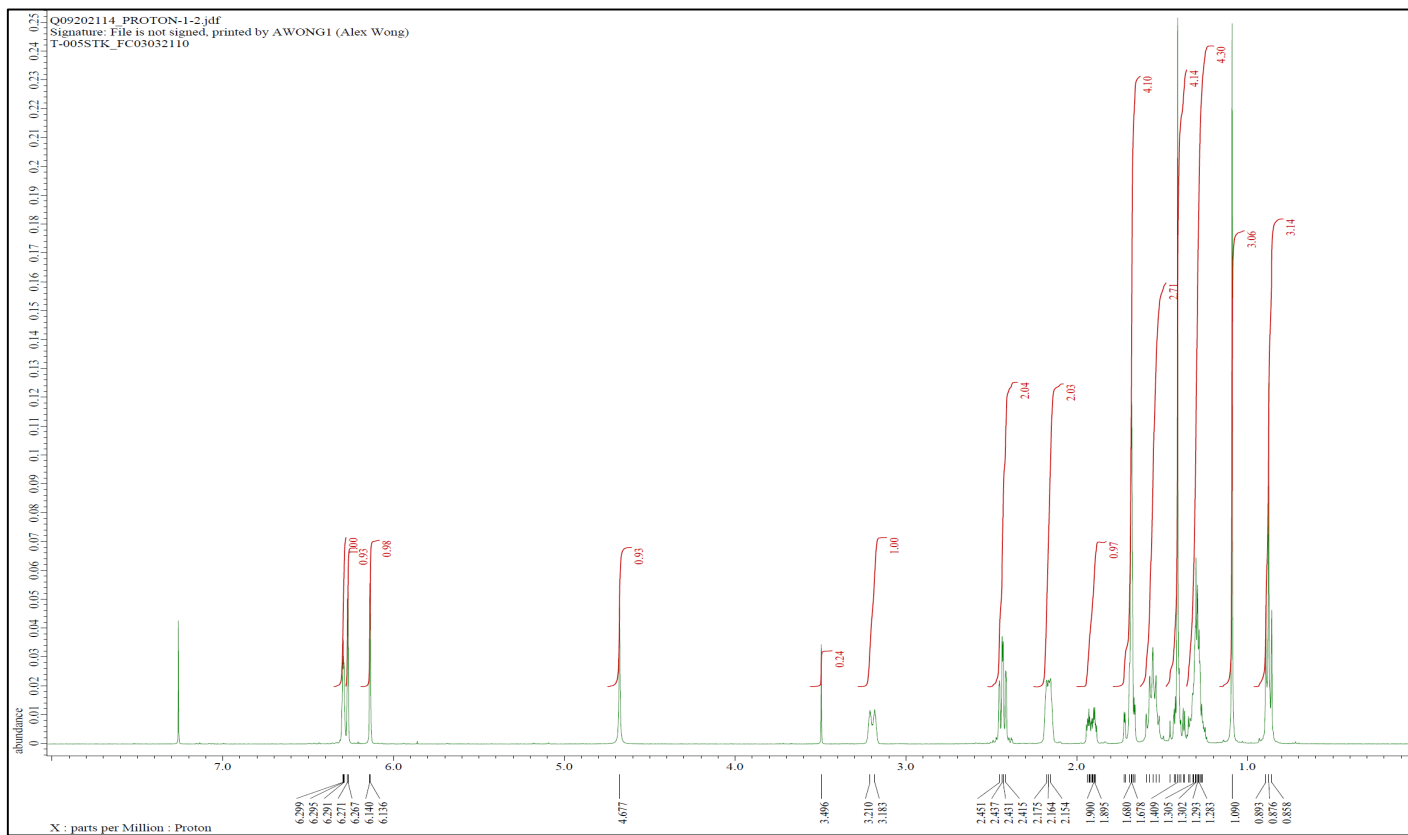
Peak	Compound	Area	Weight %
1	Methanol	36.08	0.17
2	NMP	NA	NA
Total			0.17

Spectral and Physical Data (cont.)

^1H NMR

Instrument: JEOL ECS 400

Solvent: Chloroform-D

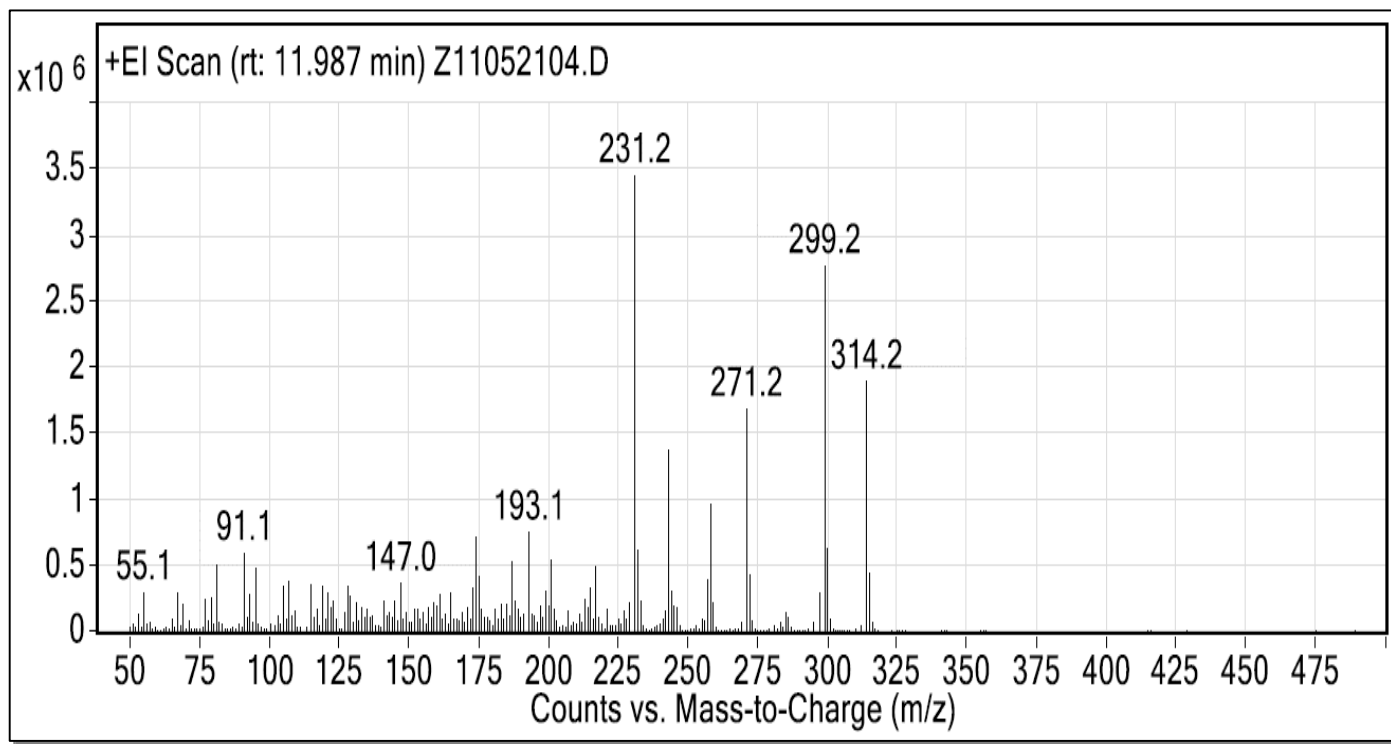


Spectral and Physical Data (cont.)

GC/MS

Column: DB-5ms 30 m x 0.25 mm ID,
0.25 μ m film thickness
Temp Program: 50°C to 200°C at 40°C/min
200°C to 300°C at 10°C/min hold 16 min

Scan Range: 50-500 amu
Instrument: Agilent 597X GCMS
Acquired: November 05, 2021



Stability

Short term stability studies have been performed in multiple storage conditions for a period of up to four weeks. Short term data is utilized to support transport conditions and normal laboratory use. Real-time stability studies are performed at the recommended storage conditions over the life of the product.

Short Term Stability: A summary of stability findings for this product is listed below.

Storage Condition	Targeted Mean Kinetic Temperature (MKT)	Time Period/Result
Freezer	-20°C	No decrease in purity was noted after four weeks.
Refrigerator	5°C	
Room Temperature	20°C	
40°C	40°C	

Transport/Shipping: Stability studies support the transport of this product at ambient conditions.

Long Term Stability: Long term stability has been assessed for Freezer storage (-10 °C to -25 °C) conditions. Stability of a minimum of 60 months has been established through real-time stability studies.

Commutability

This standard is a solution of a pure substance in an organic solvent and is a Primary Standard. This Primary Standard is suitable for use in the preparation of calibrators and/or controls in any biological matrix. This standard is not in a biological matrix and therefore commutability to methods or standards in biological matrices does not apply.

COA Revision History

Revision No.	Date	Reason for Revision
00	May 05, 2022	Initial version.

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The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the US and Canada.



ICL CALIBRATION LABORATORIES, INC.



Cert 526.01 Calibration

ISO/IEC 17025 and ANSI/NCSL Z540-1 accredited

The specialists in ASTM and laboratory thermometers & hydrometers

Members: A2LA ASTM API NCSL ASQ NCWM

Setting new standards in calibration excellence!

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Tel: 772-286-7710 1-800-713-6647

Fax: 772-286-8737 email: sales@icllabs.com

Internet: www.icllabs.com

CALIBRATION REPORT FOR VOLUMETRIC FLASK (WIDE MOUTH)

The instrument or device identified below was examined and calibrated in ICL's metrology laboratory following the calibration procedure referenced below. This calibration fulfills the requirements of ISO/IEC 17025:2017, 'General Requirements for the Competence of Testing and Calibration Laboratories' and ANSI/NCSL Z540-1-1994, 'Calibration Laboratories and Measuring and Test Equipment - General Requirements'.

CLIENT

MICHIGAN STATE POLICE

7320 N. CANAL ROAD

LANSING, MI 48913

Purchase order number: NOT AVAILABLE

Submitted by: MICHIGAN STATE POLICE

ICL internal reference (SO): 381877

DATES

Date received: 12-07-2020

Date calibrated: 12-17-2020 Date report issued: 12-18-2020

UUT (Unit Under Test) INFORMATION

VOLUMETRIC FLASK (WIDE MOUTH) marked 'CLASS A' Capacity: 5 mL

Graduations: Single line at indicated capacity

Accuracy tolerance: 0.08 mL

Graduated to contain

Manufacturer: KIMAX / KIMBLE

Serial No: 3683

Engineering units: mL (milliliters @ 20 °C)



RESULTS OF PHYSICAL EXAMINATION

This artifact was examined under a polarized lens and strains in the glass, if any, were judged to be minimal and of no detriment to the function of the artifact. This artifact is in acceptable condition, free of cracks or obvious damage, unless otherwise noted below.

CALIBRATION PROCEDURE USED

ICL Procedure 03, which is based upon ASTM E542, with elements of NIST SOP-14 added for rigor.

LABORATORY ENVIRONMENTAL CONDITIONS

Air temperature: 22.4 °C Relative humidity: 52 % Atmospheric pressure: 763 mm, or 30.04 inches, of mercury.

RESULTS OF CALIBRATION

The volume(s) contained or delivered by this artifact cannot be adjusted or modified by ordinary means; accordingly, the values presented below should be considered to be both 'As Found' and 'As Left' values.

Indicated volume	Measured	Correction	Tolerance	Accept limit*	P/F/Ind	Uncertainty
5.000 mL	5.037 mL	-0.037 mL	± 0.080 mL	± 0.0798 mL	Pass	± 0.018 mL

GUARD BANDING

ISO/IEC 17025:2017 requires, in Section 7.8.6.1., that, "When a statement of conformity to a specification or standard is provided, the laboratory shall document the decision rule employed." One valid way of complying with this requirement is applying a 'guard band' to the device's tolerance. The guard band is calculated as a function of the test uncertainty ratio (TUR), the ratio of the tolerance of the UUT to the measurement uncertainty. Basically, the smaller the uncertainty is relative to the tolerance, the smaller the guard band. A TUR of 5:1 typically results in a guard band of zero, or nearly zero. A 4:1 TUR produces in a guard band very close to zero. A 3:1 TUR results in a modest guard band. And so forth. As TUR declines, the guard band becomes larger. The use of the guard band in the decision process is designed to reduce the probability of a false acceptance (PFA), or a false failure, to 2% or less. The method and equations we use for calculation of the guard band are as per Method 6 of ANSI/NCSL Z540.3

The *Accept Limit(s) are calculated by subtracting the guard band from the tolerance. The Accept Limit is essentially a new tolerance, for this calibration only, which we use to make a declaration of Pass, Fail, or Indeterminate, as explained below:

Pass The measured value falls within the interval described by the test point plus or minus the Accept Limit.

Fail The measured value falls outside the interval described by the test point plus or minus (the tolerance + the guard band).

Ind (Indeterminate) The measured value is indeterminate, falling in that statistical 'grey' area, too close to permit a credible determination. It is statistically and metrologically imprudent to declare that the instrument is definitively either 'in-tolerance' or 'out-of-tolerance'.

LIMITATIONS OF USE

This is a full range calibration. No limitations of use are imposed on this artifact.

MEASUREMENT UNCERTAINTY

The measurement uncertainty reported is the expanded uncertainty at 2 sigma ($k=2$), to provide a confidence level of approximately 95%.

The uncertainty is calculated considering both Type A and Type B contributors. Type A contributors include the standard deviation of a minimum of three repetitions of the measurement, the standard deviation of the balance(s) used for weight measurements, the imprecision of the water density equation, the ambiguity of setting the water level meniscus, the effect that the imprecision of measuring air temperature, relative humidity and atmospheric pressure have on the calculated air density, and the impact of evaporation and drainage issues. Type B contributors include the uncertainty of the calibration of the masses used for balance verification, the uncertainty of the calibration of the thermometer used for measuring water temperature, and the uncertainty of the balance calibration, among others. The Type A and B contributors are combined using the root-sum-square method to obtain the standard uncertainty at 1 sigma. The standard uncertainty is then multiplied by 2 to obtain the expanded uncertainty at 2 sigma ($k=2$).

This uncertainty calculation is consistent with the requirements of the ISO Guide to the Expression of Uncertainty in Measurement (the 'GUM') and NIST Technical Note 1297.

NOTES AND SUPPLEMENTAL INFORMATION

All temperatures given in this report are those defined by the International Temperature Scale of 1990 (ITS-90). The equation used for the calculation of water density is the Patterson/Morris Water Density Equation (Patterson, J.B., and Morris, E.C., 'Measurement of Absolute Water Density, 1 deg C to 40 deg C', Metrologia, 31, 277-288, (1994).

TRACEABILITY INFORMATION

This calibration is traceable to the International System of Units (the SI, or *Système international d'unités*). Traceability is accomplished through execution of an approved, recognized method (ASTM E542), performed by trained, competent personnel, using ISO/IEC 17025 calibrated equipment, under appropriate and stable environmental conditions.

This calibration was performed using either a Mettler AX-504, PR-1203, or PB-3002 balance, as appropriate for the volumes calibrated. These balances are serviced and calibrated annually by Mettler Toledo. The correct functioning of the balance was verified immediately before the performance of this volume calibration using an ASTM Class 1, NIST traceable calibrated set of weights, S/N P742. These weights are calibrated annually by ICL Calibration, which is accredited by the A2LA for the calibration of weights.

The digital thermometer used for measuring water temperature during the calibration, S/N 306199, is calibrated at six-month intervals against our working standard PRTs.

Environmental conditions measurements: air temperature and humidity are measured on a calibrated Fluke 'Dewk' temperature and humidity meter. Atmospheric pressure is measured on a Rinco National Weather Service type barometer, S/N W14463, which is routinely verified against our calibrated Druck pressure calibrator, S/N 6103224206.

TECHNICIAN: Deborah M. Weber

ICL CALIBRATION LABORATORIES, INC.

ICL Calibration Laboratories, Inc. is accredited to ISO/IEC 17025 & ANSI/NCSL Z-540-1 by the A2LA, Certificate #526.01, Calibration.

Approved by: 

Reviewed by: 

Deborah M. Weber, Quality Deputy
J. Jeff Kelly, Senior Quality Associate
Michael C. Kelly, Technical Manager
Date report issued: 12-18-2020

This report document was prepared by Lori J. Parr
Calibration interval to be defined by client.

Caution: Users should be aware that the accuracy of volumetric glassware may be affected by rough handling, shock, exposure to aggressive liquids, high temperatures, and thermal cycling, among other factors. Consequently, test results and performance obtained at time of calibration may not necessarily apply throughout an extended period of use. Periodic recalibration of this device, in accordance with the procedures set forth in ASTM E542, is recommended.

This calibration report may not be reproduced except in full without the express written permission of ICL Calibration Laboratories, Inc.

This report applies only to the item calibrated. This calibration report shall not be used to claim product endorsement by the A2LA.

Serial #: SU40547

Asset #: 007

Nominal Size: 1000 µl

Manufacturer: Thermo

Channel Count: 1

PIPETTE PROS LLC

Professional Quality Calibrations

17195 Silver Parkway

Fenton, MI 48430

Ph. 833-PIPETTE

Certificate of Calibration

Certificate #: NJR2RP9APX

Customer #: 79071457

Job #: 0122072101

Conforming To: ISO 8655 - Single Channel

Cal. Due: Oct-2022

Customer Information

Institution: Michigan State Police

Contact: Lindsay Norris

Address: 7320 N. Canal Rd
Lansing, MI 48913

Department: Toxicology

Test Equipment

Balance: Sartorius 0039303556

Cal. Due: 31-Jan-2023

Hygrometer: VWR 181717018

Cal. Due: 25-Feb-2023

Type: As Found Status: **Pass** Date Calibrated: 21-Jul-2022 Tech: Faber, Jason

Pipette Note: None

Environment Temperature: 72.4°F / 22.44°C

Pressure: 29.6 inHg / 751.84 mmHg

Humidity: 55.1 %

Z Factor: 1.00337081

Ch 1

Test Volume (µl)	Readings (mg)		
	1	2	3
100	97.65	98.5	98.59
1000	1001.48	1004.5	1004.88

Test Volume (µl)	Mean Volume (µl)	Analysis								Meas. Uncert. (+/- µl)	Status
		Inaccuracy				Imprecision					
		Error (µl)	Allowed (+/- µl)	Error (%)	Allowed (+/- %)	Error (µl)	Allowed (µl)	Error (%)	Allowed (%)		
100	98.578	-1.422	8	1.422	8	0.528	3	0.528	3	1.01	PASS
1000	1007.003	7.003	8	0.7	0.8	1.86	3	0.186	0.3	3.43	PASS

Type: As Left Status: **Pass** Date Calibrated: 21-Jul-2022 Tech: Faber, Jason

Pipette Note: None

Environment Temperature: 72.7°F / 22.61°C

Pressure: 29.6 inHg / 751.84 mmHg

Humidity: 54 %

Z Factor: 1.00340927

Ch 1

Test Volume (µl)	Readings (mg)				
	1	2	3	4	5
100	96.57	97	97.16	97.31	96.99
1000	1002.59	1002.47	1002.45	1001.65	1001.45

Test Volume (μl)	Mean Volume (μl)	Analysis								Meas. Uncert. (+/- μl)	Status
		Inaccuracy				Imprecision					
		Error (μl)	Allowed (+/- μl)	Error (%)	Allowed (+/- %)	Error (μl)	Allowed (μl)	Error (%)	Allowed (%)		
100	97.337	-2.663	8	2.663	8	0.285	3	0.285	3	0.83	PASS
1000	1005.539	5.539	8	0.554	0.8	0.53	3	0.053	0.3	1.2	PASS



* Authorizing Party, John Munoz

21-Jul-2022

Report Generation Date

*The Authorizing Party confirms this certificate has been reviewed for authenticity and accuracy of results.

The calibration performed is in accordance with ISO 17025:2017. The standards used in this calibration report are traceable through NIST. Uncertainty Measurements are based on approximately a 95% confidence interval, using a coverage of k = 2 and are included for information purposes only. Pipette Pros, LLC's Decision Rule is Pass/Fail contingent on test results falling within set imprecision and inaccuracy tolerances using observed measurements corrected for environmental factors. All reported results reported above apply to this instrument only at the time of calibration. Pipette Pros, LLC grants permission to produce this report in whole only.



Accreditation #93145

Serial #: 04H00379

Asset #: 064

Nominal Size: 20 µl

Manufacturer: Brand

Channel Count: 1

PIPETTE PROS LLC

Professional Quality Calibrations

17195 Silver Parkway

Fenton, MI 48430

Ph. 833-PIPETTE

Certificate of Calibration

Certificate #: EV0C781H3Y

Customer #: 79071457

Job #: 0122072101

Conforming To: ISO 8655 - Single Channel

Cal. Due: Oct-2022

Customer Information**Institution:** Michigan State Police**Contact:** Lindsay Norris**Address:** 7320 N. Canal Rd
Lansing, MI 48913**Department:** Toxicology**Test Equipment****Balance:** Sartorius 0039303556

Cal. Due: 31-Jan-2023

Hygrometer: VWR 181717018

Cal. Due: 25-Feb-2023

Type: As Found **Status: Pass** **Date Calibrated: 21-Jul-2022** **Tech: Faber, Jason**
Pipette Note: None**Environment** **Temperature:** 72.9°F / 22.72°C**Pressure:** 29.6 inHg / 751.84 mmHg**Humidity:** 53.8 %**Z Factor:** 1.00343502

Test Volume (µl)	Readings (mg)		
	1	2	3
2	1.95	2.09	2.04
20	20.16	20.11	20.11

Test Volume (µl)	Mean Volume (µl)	Analysis								Meas. Uncert. (+/- µl)	Status
		Inaccuracy				Imprecision					
		Error (µl)	Allowed (+/- µl)	Error (%)	Allowed (+/- %)	Error (µl)	Allowed (µl)	Error (%)	Allowed (%)		
2	2.034	0.034	0.2	1.681	10	0.07	0.1	3.501	5	0.4	PASS
20	20.196	0.196	0.2	0.979	1	0.029	0.1	0.143	0.5	0.37	PASS

Type: As Left **Status: Pass** **Date Calibrated: 21-Jul-2022** **Tech: Faber, Jason**
Pipette Note: None**Environment** **Temperature:** 73.1°F / 22.83°C**Pressure:** 29.6 inHg / 751.84 mmHg**Humidity:** 53.5 %**Z Factor:** 1.00346090

Test Volume (µl)	Readings (mg)				
	1	2	3	4	5
2	2.03	1.98	1.99	2.02	1.94
20	19.98	20.12	20.01	20.14	20.08

Test Volume (µl)	Mean Volume (µl)	Analysis								Meas. Uncert. (+/- µl)	Status
		Inaccuracy				Imprecision					
		Error (µl)	Allowed (+/- µl)	Error (%)	Allowed (+/- %)	Error (µl)	Allowed (µl)	Error (%)	Allowed (%)		
2	1.999	-0.001	0.2	0.055	10	0.036	0.1	1.789	5	0.38	PASS
20	20.135	0.135	0.2	0.677	1	0.069	0.1	0.345	0.5	0.4	PASS



* Authorizing Party, John Munoz

21-Jul-2022

Report Generation Date

*The Authorizing Party confirms this certificate has been reviewed for authenticity and accuracy of results.

The calibration performed is in accordance with ISO 17025:2017. The standards used in this calibration report are traceable through NIST. Uncertainty Measurements are based on approximately a 95% confidence interval, using a coverage of k = 2 and are included for information purposes only. Pipette Pros, LLC's Decision Rule is Pass/Fail contingent on test results falling within set imprecision and inaccuracy tolerances using observed measurements corrected for environmental factors. All reported results reported above apply to this instrument only at the time of calibration. Pipette Pros, LLC grants permission to produce this report in whole only.



Accreditation #93145



Serial #: 08J41124

Asset #: 068

Nominal Size: 1000 µl

Manufacturer: Brand

Channel Count: 1

PIPETTE PROS LLC

Professional Quality Calibrations

17195 Silver Parkway

Fenton, MI 48430

Ph. 833-PIPETTE

Certificate of Calibration

Certificate #: 641YF0J6SL

Customer #: 79071457

Job #: 0122072101

Conforming To: ISO 8655 - Single Channel

Cal. Due: Oct-2022

Customer Information**Institution:** Michigan State Police**Contact:** Lindsay Norris**Address:** 7320 N. Canal Rd
Lansing, MI 48913**Department:** Toxicology**Test Equipment****Balance:** Sartorius 0039303556

Cal. Due: 31-Jan-2023

Hygrometer: VWR 181717018

Cal. Due: 25-Feb-2023

Type: As Found **Status: Pass** **Date Calibrated: 21-Jul-2022** **Tech: Faber, Jason**
Pipette Note: None**Environment** **Temperature:** 72.9°F / 22.72°C**Pressure:** 29.6 inHg / 751.84 mmHg**Humidity:** 53.7 %**Z Factor:** 1.00343503

Test Volume (µl)	Readings (mg)		
	1	2	3
100	103.42	103.68	103.86
1000	997.92	998.17	998.44

Test Volume (µl)	Mean Volume (µl)	Analysis								Meas. Uncert. (+/- µl)	Status
		Inaccuracy				Imprecision					
		Error (µl)	Allowed (+/- µl)	Error (%)	Allowed (+/- %)	Error (µl)	Allowed (µl)	Error (%)	Allowed (%)		
100	104.009	4.009	8	4.009	8	0.213	3	0.213	3	0.58	PASS
1000	1001.605	1.605	8	0.161	0.8	0.26	3	0.026	0.3	0.64	PASS

Type: As Left **Status: Pass** **Date Calibrated: 21-Jul-2022** **Tech: Faber, Jason**
Pipette Note: None**Environment** **Temperature:** 73.1°F / 22.83°C**Pressure:** 29.6 inHg / 751.84 mmHg**Humidity:** 53.1 %**Z Factor:** 1.00346094

Test Volume (µl)	Readings (mg)				
	1	2	3	4	5
100	102.4	102.94	102.85	103.03	103.43
1000	999.21	998.84	998.28	995.97	996.21

Test Volume (µl)	Mean Volume (µl)	Analysis								Meas. Uncert. (+/- µl)	Status
		Inaccuracy				Imprecision					
		Error (µl)	Allowed (+/- µl)	Error (%)	Allowed (+/- %)	Error (µl)	Allowed (µl)	Error (%)	Allowed (%)		
100	103.286	3.286	8	3.286	8	0.359	3	0.359	3	1.1	PASS
1000	1001.155	1.155	8	0.115	0.8	1.51	3	0.151	0.3	3.27	PASS



* Authorizing Party, John Munoz

21-Jul-2022

Report Generation Date

*The Authorizing Party confirms this certificate has been reviewed for authenticity and accuracy of results.

The calibration performed is in accordance with ISO 17025:2017. The standards used in this calibration report are traceable through NIST. Uncertainty Measurements are based on approximately a 95% confidence interval, using a coverage of k = 2 and are included for information purposes only. Pipette Pros, LLC's Decision Rule is Pass/Fail contingent on test results falling within set imprecision and inaccuracy tolerances using observed measurements corrected for environmental factors. All reported results reported above apply to this instrument only at the time of calibration. Pipette Pros, LLC grants permission to produce this report in whole only.



Accreditation #93145



Serial #: 0496421

Asset #: 103

Nominal Size: 1000 µl

Manufacturer: Eppendorf Repeater

Channel Count: 1

PIPETTE PROS LLC

Professional Quality Calibrations

17195 Silver Parkway

Fenton, MI 48430

Ph. 833-PIPETTE

Certificate of Calibration

Certificate #: D2SUGA5DVC

Customer #: 79071457

Job #: 0122072101

Conforming To: ISO 8655 - Multidispenser

Cal. Due: Oct-2022

Customer Information**Institution:** Michigan State Police**Contact:** Lindsay Norris**Address:** 7320 N. Canal Rd
Lansing, MI 48913**Department:** Toxicology**Test Equipment****Balance:** Sartorius 0039303556

Cal. Due: 31-Jan-2023

Hygrometer: VWR 181717018

Cal. Due: 25-Feb-2023

Type: As Found **Status: Pass** **Date Calibrated: 21-Jul-2022** **Tech: Faber, Jason**
Pipette Note: None**Environment** **Temperature:** 72.9°F / 22.72°C**Pressure:** 29.6 inHg / 751.84 mmHg**Humidity:** 54.3 %**Z Factor:** 1.00343496

Test Volume (µl)	Readings (mg)		
	1	2	3
100	99.33	99.45	99.91
1000	998.27	998.82	999.25

Test Volume (µl)	Mean Volume (µl)	Analysis								Meas. Uncert. (+/- µl)	Status
		Inaccuracy				Imprecision					
		Error (µl)	Allowed (+/- µl)	Error (%)	Allowed (+/- %)	Error (µl)	Allowed (µl)	Error (%)	Allowed (%)		
100	99.905	-0.095	10	0.095	10	0.308	4	0.308	4	0.69	PASS
1000	1002.211	2.211	10	0.221	1	0.49	4	0.049	0.4	1.05	PASS

Type: As Left **Status: Pass** **Date Calibrated: 21-Jul-2022** **Tech: Faber, Jason**
Pipette Note: None**Environment** **Temperature:** 72.9°F / 22.72°C**Pressure:** 29.6 inHg / 751.84 mmHg**Humidity:** 54.2 %**Z Factor:** 1.00343497

Test Volume (µl)	Readings (mg)				
	1	2	3	4	5
100	100.47	99.7	99.76	99.95	100.23
1000	998.12	997.12	998.29	998.56	999.32

Test Volume (μl)	Mean Volume (μl)	Analysis								Meas. Uncert. (+/- μl)	Status
		Inaccuracy				Imprecision					
		Error (μl)	Allowed (+/- μl)	Error (%)	Allowed (+/- %)	Error (μl)	Allowed (μl)	Error (%)	Allowed (%)		
100	100.366	0.366	10	0.366	10	0.325	4	0.325	4	0.86	PASS
1000	1001.711	1.711	10	0.171	1	0.8	4	0.08	0.4	2.24	PASS



* Authorizing Party, John Munoz

21-Jul-2022

Report Generation Date

*The Authorizing Party confirms this certificate has been reviewed for authenticity and accuracy of results.

The calibration performed is in accordance with ISO 17025:2017. The standards used in this calibration report are traceable through NIST. Uncertainty Measurements are based on approximately a 95% confidence interval, using a coverage of k = 2 and are included for information purposes only. Pipette Pros, LLC's Decision Rule is Pass/Fail contingent on test results falling within set imprecision and inaccuracy tolerances using observed measurements corrected for environmental factors. All reported results reported above apply to this instrument only at the time of calibration. Pipette Pros, LLC grants permission to produce this report in whole only.



Accreditation #93145



Conclusion

LCMSMS21-1 is a SCIEX 4500 Triple Quad mass analyzer system utilizing tandem single quadrupole technology. The QTRAP 4500 is coupled with a Shimadzu HPLC System and a Parker Tri-Gas nitrogen generator.

Installation was completed on November 22, 2021. All components met manufacturer acceptance criteria and specifications.

This validation is to evaluate the parameters set forth in ASB Standard 036 to determine whether the method used to quantify the following analytes is fit for use:

- $\Delta 9$ -tetrahydrocannabinol ($\Delta 9$ -THC)
- $\Delta 8$ -tetrahydrocannabinol ($\Delta 8$ -THC)
- 11-hydroxy- $\Delta 9$ -tetrahydrocannabinol ($\Delta 9$ -THC-OH)
- 11-nor-9-carboxy- $\Delta 9$ -tetrahydrocannabinol ($\Delta 9$ -THC-COOH)

Calibration Models:

The following calibration models were selected:

- $\Delta 9$ -tetrahydrocannabinol ($\Delta 9$ -THC) – quadratic $1/x$
- $\Delta 8$ -tetrahydrocannabinol ($\Delta 8$ -THC) – quadratic $1/x$
- 11-hydroxy- $\Delta 9$ -tetrahydrocannabinol ($\Delta 9$ -THC-OH) – linear $1/x$
- 11-nor-9-carboxy- $\Delta 9$ -tetrahydrocannabinol ($\Delta 9$ -THC-COOH) – linear $1/x$

The selection of calibration models is based on the following criteria:

- A visual inspection of the residual plots with the intent of selecting the model with the most even spread of residuals both above and below the target value, at each level.
- If one model does not demonstrate superior residual spread, control levels and the LLOQ are evaluated for bias and precision.
- If one model does not demonstrate superior bias and precision of control values and LLOQ, a linear model is selected.

The calibration model selected must have r^2 values ≥ 0.990 . Each of the batches analyzed with this method demonstrates acceptable r^2 values.

The dropping of calibrators was not evaluated in this validation, no calibrators may be dropped.

Bias and Precision:

Acceptable bias and precision is $\pm 20\%$. A statistical evaluation of fifteen data points, obtained from five separate analytical runs, and five different validation team members, resulted in values that are within $\pm 20\%$ for each analyte.

Internal Standards:

Validation batches are commonly smaller than full casework batches, thus using validation batches to determine internal standard acceptance criteria may not be as appropriate as using a full batch. Acceptance criteria for internal standard area counts of this method will be determined using a full simulated casework batch.

Internal standard area counts were evaluated in the simulated batch, by comparing each internal standard to the mean. Area counts were evaluated at the following ranges from the mean:

$\Delta 9$ -THC-COOH-D3	± 15 -40%
$\Delta 9$ -THC-OH-D3	± 15 -40%
$\Delta 8$ -THC-D3	± 15 -50%
$\Delta 9$ -THC-D3	± 15 -40%

Acceptance criteria will be set at the following ranges from the mean:

$\Delta 9$ -THC-COOH-D3	$\pm 25\%$
$\Delta 9$ -THC-OH-D3	$\pm 20\%$
$\Delta 8$ -THC-D3	$\pm 40\%$
$\Delta 9$ -THC-D3	$\pm 30\%$

Carryover:

Carryover was evaluated by analyzing samples ten times the highest calibrator. No carryover was observed after analyzing samples prepared at the following concentrations (ng/mL):

$\Delta 9$ -THC-COOH	1000
$\Delta 9$ -THC-OH	200
$\Delta 8$ -THC	1000
$\Delta 9$ -THC	1000

Interference:

Matrix

Matrix interferences was evaluated by preparing ten different lots of blank matrix samples following the LC-Cannabinoid extraction procedure. Internal standard and standards and controls were not added to the samples

The instrument method used included additional MRM transitions for the purposes of evaluating interference. The table below identifies the name of each compound transition in the method and the Q1 and Q3 mass for each transition.

Component Name	Mass Info
THC-OH-D3	334.1 / 196.1
Δ 9-THC-D3	318.1 / 123.0
Δ 8-THC-D3	318.1 / 123.0
THC-OH 1	331.1 / 193.1
THC-OH 2	331.1 / 105.1
Δ 9-THC 1	315.1 / 193.1
Δ 9-THC 2	315.1 / 123.0
Δ 8-THC 1	315.1 / 193.1
Δ 8-THC 2	315.1 / 123.1
THC-COOH-D3	346.0 / 194.0
THC-COOH 1	343.0 / 299.1
THC-COOH 2	343.0 / 191.0

There were no significant peaks observed for any panel analyte or internal standard in the data.

Panel Analytes

One matrix sample per internal standard and standard was prepared.

Internal Standards

The internal standards were prepared separately with the following table. Using pipettes # 7, 63, 65 and methanol lot 22D2062006-3.

Analyte	Lot Number (exp)	CRM volume (μ L)	Methanol volume (μ L)	Final volume (μ L)
d3-delta 9-THC	FE06022103-1 (6/30/26)	25	975	1000
d3-delta 9-THC-OH	FE07302001-1 (8/31/25)	5	995	1000
d3-delta 9-THC-COOH	FN06092105-1 (6/30/26)	25	975	1000
d3-delta 8-THC	FN06052002-1 (7/31/23)	25	975	1000

Each sample was fortified with 10 μ L of the corresponding standard and prepared following the LC-Cannabinoid extraction procedure.

Standards

The standards were prepared separately with the following table. Using pipettes # 7, 69, 65 and methanol lot 22D2062006-3.

Analyte	Lot Number (exp)	CRM volume (μL)	Methanol volume (μL)	Final volume (μL)
delta 9-THC	FE09162102-2 (3/31/27)	25	4975	5000
delta 9-THC-OH	FE09182008-2 (6/30/23)	250	4750	5000
delta 9-THC-COOH	FN09252110-2 (12/31/26)	250	4750	5000
delta 8-THC	FE02172272-2 (5/28/27)	25	4975	5000

Each sample was fortified with 10 μL of the corresponding standard and prepared following the LC-Cannabinoid extraction procedure.

The delta 9-THC-OH and delta 9-THC-COOH recipe was made using a 100 ug/mL standard and a 1 mg/mL standard was used so those two samples were diluted 10-fold (100 μL above dilution and 900 μL methanol) on 20220920 and extracted using the above procedure. These are found in the same data file name. The incorrect data was not processed but is retained in the file.

The instrument method used included additional MRM transitions for the purposes of evaluating interference. The table below identifies the name of each compound transition in the method and the Q1 and Q3 mass for each transition.

Component Name	Mass Info
THC-OH-D3	334.1 / 196.1
Δ9-THC-D3	318.1 / 123.0
Δ8-THC-D3	318.1 / 123.0
THC-OH 1	331.1 / 193.1
THC-OH 2	331.1 / 105.1
Δ9-THC 1	315.1 / 193.1
Δ9-THC 2	315.1 / 123.0
Δ8-THC 1	315.1 / 193.1

Δ8-THC 2	315.1 / 123.1
THC-COOH-D3	346.0 / 194.0
THC-COOH 1	343.0 / 299.1
THC-COOH 2	343.0 / 191.0

The Δ9-THC-COOH sample produced a peak appearing in the Δ9-THC-COOH-D3 transition window with a retention time matching exactly to THC-COOH of 5.35 minutes. At this level, it is possible that cross channel interference may be present. The area of the peak is approximately 0.24% of the corresponding peak for Δ9-THC-COOH-D3. When looking at the percentage of the THC-COOH 1 that is producing the interference, it is 0.02%. This is further explored in an additional study where neat samples at each calibration level (with 5 replicates) were run on the instrument to ensure the amount of cross channel interference was consistent. That data shows that at each level, 0.02% of the THC-COOH is consistently causing cross channel interference with the internal standard, across the entirety of the calibration curve.

Analytes outside of method scope

The analyte mix table was used to make neat mixes at the labeled concentration for over 250 analytes. The interference samples were run as neat standards and as spiked extracts using the following transitions. AS = autosampler

Extracted samples:

Component Name	Mass Info (Q1 / Q3)
Δ9-THC 1	315.1 / 193.1
Δ9-THC 2	315.1 / 123.0
Δ8-THC 1	315.1 / 193.1
Δ8-THC 2	315.1 / 123.1
THC-OH 1	331.1 / 193.1
THC-OH 2	331.1 / 105.1
THC-OH-D3	334.1 / 196.1
Δ9-THC-D3	318.1 / 123.0
Δ8-THC-D3	318.1 / 123.0
THC-COOH 1	343.0 / 299.1
THC-COOH 2	343.0 / 191.0
THC-COOH-D3	346.0 / 194.0

Neat samples:

Component Name	Mass Info (Q1 / Q3)
Δ9-THC 1	315.1 / 193.1
Δ9-THC 2	315.1 / 123.0
Δ8-THC 1	315.1 / 193.1
Δ8-THC 2	315.1 / 123.1
Δ9-THC-OH 1	331.1 / 193.1
Δ9-THC-OH 2	331.1 / 105.1
THC-OH-D3 1	334.1 / 196.1
THC-OH-D3 2	334.1 / 105.0
Δ9-THC-D3 1	318.1 / 196.0
Δ9-THC-D3 2	318.1 / 123.0
Δ8-THC-D3 1	318.1 / 196.0
Δ8-THC-D3 2	318.1 / 123.0
Δ9-THC-COOH 1	343.0 / 299.1
Δ9-THC-COOH 2	343.0 / 191.0

Δ^9 -THC-COOH-D3 1	346.0 / 302.0
Δ^9 -THC-COOH-D3 2	346.0 / 194.0

Procedure for preparing the mixtures

To make mixes A-F, add 2 µL 1.0 mg/mL or 20 µL 100 µg/mL standard to enough methanol to make 1 mL total volume in an autosampler vial without an insert. Save the mix for future validations in the freezer. Take 15 µL of that mix into a flat bottomed autosampler vial without insert, dry down in the turbovap and add 100 µL of 50/50 mobile phase A/mobile phase B. Vortex, then transfer to insert for vial.

Mobile phase A is 0.1% formic acid in water; mobile phase B is 0.1% formic acid in acetonitrile.

For premade mixes, put 5 µL standard in non-insert flat bottomed autosampler vial, dry down and add 1000 µL 50/50 MPA/MPB.

For intermediate mixes A1, A2, B, C, D, F, G, H take 15 µL mix into flat bottomed autosampler vial, dry down and reconstitute with 100 µL 50/50, then transfer into insert for autosampler vial.

For phytocannabinoids, prepare separately. Take 20 µL 1 mg/mL standard or 200 µL 100 µg/mL standard and dilute it to 1 mL with methanol. Take 5 µL of diluted standard, dry down in flat bottomed vial, reconstitute with 100 µL 50/50 MPA/MPB. Save diluted mix for future studies.

For all extracted samples, the same volume was spiked as was used for the neat samples.

Mix	Interference Analytes	Lot number	Expiration Date	Concentration
A	acryl fentanyl	FE10171801-3	23-Apr	300 ng/mL AS
A	atomoxetine	0579147-11-1	11/11/2022	
A	benztropine	0459781-31	9/15/2023	
A	benzylpiperazine	0525736-7	4/19/2027	
A	bupropion	0530392-19	5/31/2027	
A	buspirone	FN03072003-1	25-May	
A	butylone	FE05071905-1	Jul-24	
A	1-(3-chlorophenyl)piperazine	0446996-28	6/29/2024	
B	desloratadine	0582596-6-1	1/18/2024	300 ng/mL AS
B	dextrophan	FN04251903-1	Jun-24	
B	dihydrocodeine	FE08071801-1	Aug-23	
B	diltiazem	0497245-12-1	1/21/2024	
B	ecgonine methyl ester	FE06022004-1	25-Jul	
B	EDDP	0600673-1	5/24/2023	
B	ephedrine	FN08271803-1	Nov-23	
B	etomidate	0504684-7	3/16/2023	
B	4-fluoroamphetamine	FN08231701-1	Jan-23	
C	furanyl fentanyl	0537068-30-1	8/21/2028	300 ng/mL AS
C	hydroxybupropion	FN08271804-1	Sep-22	
C	laudanosine	0551521-4	4/7/2024	
C	lidocaine	FN09091902-1	Sep-24	
C	meclizine	0449190-23	4/20/2024	

C	mephedrone	0540916-25-1	9/27/2027	
C	methocarbamol	0518297-11	11/9/2022	
C	5-methoxy DiPT	0541369-2	10/7/2023	
C	5-methoxy MiPT	0551231-17	4/5/2024	
C	3,4-methylenedioxy PV9	0470633-15-1	9/19/2023	
D	methylone	0486155-35-1	12/18/2022	300 ng/mL AS
D	metoclopramide	0515016-6	3/16/2023	
D	metoprolol	FN06301704-1	Aug-22	
D	naphyrone	0434404-62-1	6/7/2023	
D	n-desmethylocitalopram	0516870-4	6/5/2024	
D	norcodeine	FE08171701-1	Jan-23	
D	norhydrocodone	FE12101802-1	Feb-24	
D	nor-mephredrone	0548505-5	4/7/2024	
D	norquetiapine	0643392-2	4/25/2024	
D	norverapamil	FN03242012-1	24-May	
E	olanzapine	0498286-41-1	5/31/2024	300 ng/mL AS
E	orphenadrine	0549480-1	12/22/2023	
E	oxybutynin	0518276-6	2/18/2024	
E	propranolol	FN08101701-1	Feb-23	
E	α -pyrrolidinohexanophenone	0571171-20-1	9/30/2028	
E	α -pyrrolidinopentiophenone	0510766-22-1	10/5/2026	
E	quinine	0576472-5-1	9/3/2023	
E	sufentanil	FE09201801-1	23-Dec	
E	ticlopidine	0530799-9	1/5/2024	
E	1-(3-trifluoromethylphenyl)piperazine	0435854-38	12/24/2023	
F	chlorpromazine	FN04231901-1	May-24	300 ng/mL AS
F	o-desmethylvenlafaxine	0487967-23-1	1/31/2024	
F	duloxetine	FN03201903-1	Apr-24	
F	propofol	0471672-15-1	7/22/2023	
F	quetiapine	0520892-1	12/22/2022	
F	verapamil	FN03221803-1	Jun-23	
F	clonidine	FN11071901-1	Dec-24	
F	promethazine	FN03122005-1	Apr-24	
ES Mix	Analyte		Expiration	AS Concentration
A1	butalbital		7/8/2023	9375 ng/mL AS
A1	carbamazepine			18750 ng/mL AS
A1	carisoprodol			9375 ng/mL AS
A1	topiramate			28125 ng/mL AS
A2	meprobamate		7/8/2023	9375 ng/mL AS
A2	phenobarbital			9375 ng/mL AS
A2	phenytoin			93750 ng/mL AS

B	7-aminoclonazepam		7/7/2023	37.5 ng/mL AS
B	alpha-hydroxyalprazolam			187.5 ng/mL AS
B	alprazolam			187.5 ng/mL AS
B	chlordiazepoxide			375 ng/mL AS
B	clonazepam			37.5 ng/mL AS
B	diazepam			187.5 ng/mL AS
B	etizolam			937.5 ng/mL AS
B	lorazepam			93.75 ng/mL AS
B	n-desmethyldiazepam			187.5 ng/mL AS
B	oxazepam			375 ng/mL AS
B	temazepam			375 ng/mL AS
C	3-hydroxyphenazepam		1/20/2023	37.5 ng/mL AS
C	7-aminoflunitrazepam			37.5 ng/mL AS
C	7-aminonitrazepam			375 ng/mL AS
C	alpha-hydroxymidazolam			187.5 ng/mL AS
C	bromazepam			937.5 ng/mL AS
C	clobazam			375 ng/mL AS
C	clonazolam			37.5 ng/mL AS
C	cloniprazepam			37.5 ng/mL AS
C	delorazepam			75 ng/mL AS
C	desalkylflurazepam			187.5 ng/mL AS
C	deschloroetizolam			37.5 ng/mL AS
C	diclazepam			37.5 ng/mL AS
C	estazolam			375 ng/mL AS
C	flualprazolam			37.5 ng/mL AS
C	flubromazolam			375 ng/mL AS
C	flunitrazepam			93.75 ng/mL AS
C	flurazepam			13.125 ng/mL AS
C	ketazolam			13.125 ng/mL AS
C	lormetazepam			93.75 ng/mL AS
C	meclonazepam			37.5 ng/mL AS
C	midazolam			187.5 ng/mL AS
C	n-desmethylflunitrazepam			187.5 ng/mL AS
C	nifoxipam			187.5 ng/mL AS
C	nitrazepam			375 ng/mL AS
C	phenazepam			37.5 ng/mL AS
C	pyrazolam			937.5 ng/mL AS
C	triazolam			37.5 ng/mL AS
D	amitriptyline		6/21/2023	375 ng/mL AS
D	brompheniramine			187.5 ng/mL AS
D	chlorpheniramine			187.5 ng/mL AS

D	citalopram			187.5 ng/mL AS
D	cyclobenzaprine			187.5 ng/mL AS
D	desipramine			937.5 ng/mL AS
D	n-desmethycyclobenzaprine			187.5 ng/mL AS
D	desmethyldoxepin			1875 ng/mL AS
D	dextro/levomethorphan			3750 ng/mL AS
D	diphenhydramine			375 ng/mL AS
D	doxepin			187.5 ng/mL AS
D	doxylamine			937.5 ng/mL AS
D	fluoxetine			1875 ng/mL AS
D	hydroxyzine			375 ng/mL AS
D	imipramine			1875 ng/mL AS
D	ketamine			187.5 ng/mL AS
D	lamotrigine			9375 ng/mL AS
D	mirtazapine			375 ng/mL AS
D	norfluoxetine			1875 ng/mL AS
D	norketamine			187.5 ng/mL AS
D	nortriptyline			937.5 ng/mL AS
D	paroxetine			375 ng/mL AS
D	phencyclidine			187.5 ng/mL AS
D	sertraline			187.5 ng/mL AS
D	trazodone			9375 ng/mL AS
D	venlafaxine			937.5 ng/mL AS
F	amphetamine		3/31/2023	187.5 ng/mL AS
F	MDA			375 ng/mL AS
F	MDMA			375 ng/mL AS
F	methamphetamine			187.5 ng/mL AS
F	methylphenidate			187.5 ng/mL AS
F	phentermine			187.5 ng/mL AS
G	6-acetylmorphine		3/31/2023	13.125 ng/mL AS
G	acetyl fentanyl			13.125 ng/mL AS
G	buprenorphine			13.125 ng/mL AS
G	carfentanil			13.125 ng/mL AS
G	fentanyl			13.125 ng/mL AS
G	isotonitazene			13.125 ng/mL AS
G	LSD			3.75 ng/mL AS
G	norbuprenorphine			18.75 ng/mL AS
G	psilocin			187.5 ng/mL AS
H	benzoylecgonine		3/31/2023	1875 ng/mL AS
H	cocaethylene			93.75 ng/mL AS
H	cocaine			93.75 ng/mL AS

H	codeine			187.5 ng/mL AS
H	hydrocodone			187.5 ng/mL AS
H	hydromorphone			93.75 ng/mL AS
H	meperidine			937.5 ng/mL AS
H	methadone			375 ng/mL AS
H	mitragynine			187.5 ng/mL AS
H	morphine			187.5 ng/mL AS
H	naloxone			187.5 ng/mL AS
H	normeperidine			937.5 ng/mL AS
H	o-desmethyltramadol			187.5 ng/mL AS
H	oxycodone			187.5 ng/mL AS
H	oxymorphone			93.75 ng/mL AS
H	tapentadol			937.5 ng/mL AS
H	tramadol			187.5 ng/mL AS
H	zaleplon			187.5 ng/mL AS
H	zolpidem			187.5 ng/mL AS
H	zopiclone			187.5 ng/mL AS
	Interference Mix 1	Lot Number	Expiration	AS Concentration
	(-)-cotinine	FE07152102-1	12/31/2025	5000 ng/mL AS
	(-)-nicotine			5000 ng/mL AS
	acetaminophen			5000 ng/mL AS
	caffeine			5000 ng/mL AS
	ibuprofen			5000 ng/mL AS
	naproxen			5000 ng/mL AS
	phentermine			500 ng/mL AS
	R,R(-)-pseudoephedrine, List I			500 ng/mL AS
	Interference Mix 2			
	gabapentin	FE04192104-1	Apr-25	500 ng/mL AS
	pregabalin			
	salicylic acid			
	valproic acid			
	vigabatrin			
	Interference Mix 3			
	(+)-propoxyphene	FE04192105-1	6/30/2025	250 ng/mL AS
	aripiprazole			500 ng/mL AS
	lacosamide			500 ng/mL AS
	oxcarbazepine			500 ng/mL AS
	rufinamide			500 ng/mL AS
	warfarin			5000 ng/mL AS
	Interference Mix 4			
	alprazolam	FE03192001-1	Apr-25	500 ng/mL AS

	cimetidine			500 ng/mL AS
	citalopram HBr			500 ng/mL AS
	clonazepam			500 ng/mL AS
	clopidogrel bisulfate			500 ng/mL AS
	dextromethorphan			250 ng/mL AS
	fluconazole			500 ng/mL AS
	hydrochlorothiazide			500 ng/mL AS
	lamotrigine			500 ng/mL AS
	L-thyroxine			25 ng/mL AS
	methylphenidate HCl			500 ng/mL AS
	omeprazole			500 ng/mL AS
	Interference Mix 5			
	carbamazepine	FE02011901-1	Nov-23	500 ng/mL AS
	levetiracetam			
	metformin HCl			
	phenobarbital			
	phenytoin			
	R(-)-phenylephrine HCl			
	sertraline hydrochloride			
	topiramate			
	zolpidem tartrate			
	zonisamide			
	Interference Mix 6			
	amlodipine besylate	FN11081807-1	Sep-23	25 ng/mL AS
	atorvastatin calcium salt			500 ng/mL AS
	azithromycin dihydrate			500 ng/mL AS
	bupivacaine HCl monohydrate			500 ng/mL AS
	cetirizine dihydrochloride			250 ng/mL AS
	dimenhydrinate			500 ng/mL AS
	lisinopril dihydrate			500 ng/mL AS
	loratadine			500 ng/mL AS
	Interference Mix 7			
	montelukast sodium salt	FN03172012-1	May-24	500 ng/mL AS
	pioglitazone hydrochloride			500 ng/mL AS
	prednisolone			500 ng/mL AS
	prednisone			250 ng/mL AS
	procainamide HCl			500 ng/mL AS
	simvastatin			500 ng/mL AS
	Synthetic Cannabinoid Custom Mix 1			
	UR-144-N-(5-chloropentyl) analog	0475768-1	12/15/2023	500 ng/mL AS
	AM2201			

	JWH 018			
	JWH 018 8-quinolinyl caborxamide			
	JWH 073			
	JWH 122			
	JWH 210			
	JWH 250			
	MAM2201			
	UR-14			
	UR-144 degradant			
	XLR11			
	XLR11 degradant			
	Synthetic Cannabinoid Custom Mix 3			
	5-fluoro NNEI	0475770-1	12/15/2023	500 ng/mL AS
	5-fluoro PB-22			
	5-fluoro PB-22 3-hydroxyquinoline isomer			
	FUB-144			
	MMB-FUBINACA			
	FUB-PB-22			
	NM2201			
	PB-22			
	THJ2201			
	Phytocannabinoids and Atropine			
	Tetrahydrocannabivarin (THCV)	0634366-5-1	1/4/2023	1000 ng/mL AS
	Cannabidiolic Acid (CBDA)	0653241-4	7/19/2024	1000 ng/mL AS
	Cannabigerolic Acid (CBGA)	0578787-15-1	3/13/2024	1000 ng/mL AS
	Cannabigerol (CBG)	FE01181901-1	23-Feb	1000 ng/mL AS
	Cannabidiol (CBD)	FE08071702-1	22-Oct	1000 ng/mL AS
	Cannabichromene (CBC)	0616642-15-1	5/14/2023	1000 ng/mL AS
	(6aR,9S)-Δ10-THC	0631458-1	1/13/2024	1000 ng/mL AS
	9(R)-Hexahydrocannabinol	0646274-13-1	5/2/2023	1000 ng/mL AS
	9(R)-Δ6a,10a-THC	0618109-1	6/8/2023	1000 ng/mL AS
	Δ9-THCO	0627111-19-1	10/19/2022	1000 ng/mL AS
	7-carboxy cannabidiol	FN04152105-1	24-Jul	1000 ng/mL AS
	atropine	FN04142102-1	4/30/2026	300 ng/mL AS
	7-hydroxy cannabidiol	FN06202111-1	2/29/2024	50000 ng/mL AS
	Cannabinol (CBN)	FE11211801-1	23-Feb	1000 ng/mL AS
	Tetrahydrocannabinolic Acid A (THCA-A)	0608065-10-1	2/4/2023	1000 ng/mL AS
	Δ9-THCP	0607391-4-1	1/21/2023	1000 ng/mL AS
	exo-THC	0648522-1	6/13/2025	1000 ng/mL AS
	(-)-11-hydroxy-delta 8-THC	0636840-1	1/18/2026	1000 ng/mL AS
	(-)-11-nor-9-carboxy-delta 8-THC	0645712-1	4/21/2027	1000 ng/mL AS

The cannabinol sample from both the neat and extracted datasets resulted in a peak for $\Delta 8$ -THC transitions 1 and 2. This peak is likely due to an impurity in the reference material. Cannabinol was infused on the instrument and run with the cannabinoid LC gradient to determine the parent mass and retention time of the compound. Cannabinol has a parent Q1 mass of 311.1 and a retention time of 8.25 minutes. The COA for cannabinol shows 0.1% $\Delta 8$ -THC detected by HPLC/UV analysis (page 5).

The tetrahydrocannabinolic acid a (THCA-A) sample from both the neat and extracted datasets resulted in a peak for $\Delta 9$ -THC transitions 1 and 2. This peak is likely due to an impurity in the reference material. THCA-A was infused on the instrument and run with the cannabinoid LC gradient to determine the parent mass and retention time of the compound. THCA-A has a parent Q1 mass of 359.1 and a retention time of 10.53 minutes.

The THC-P sample from both the neat and extracted datasets resulted in a peak for both $\Delta 8$ -THC and $\Delta 9$ -THC transitions 1 and 2. This peak is likely due to an impurity in the reference material. THC-P was infused on the instrument and run with the cannabinoid LC gradient to determine the parent mass and retention time of the compound. THC-P has a parent Q1 mass of 343.2 and a retention time of 11.00 minutes.

The 11-hydroxy- $\Delta 8$ -THC injection for both the neat and extracted datasets resulted in a peak for $\Delta 9$ -THC-OH transitions 1 and 2. The retention time of this compound is 5.12 minutes. The retention time for the panel analyte $\Delta 9$ -THC-OH is 5.05 minutes.

The 11-nor-9-carboxy- $\Delta 8$ -THC injection for both the neat and extracted datasets resulted in a peak for $\Delta 9$ -THC-COOH transitions 1 and 2. The retention time of this compound is 5.16 minutes. The retention time for the panel analyte $\Delta 9$ -THC-COOH is 5.35 minutes.

The exo-THC injection for both the neat and extracted datasets resulted in a peak for both the $\Delta 8$ -THC and $\Delta 9$ -THC transitions 1 and 2. The retention time of this compound is 9.04 minutes. The retention time for the panel analyte $\Delta 8$ -THC is 9.37 minutes and for $\Delta 9$ -THC is 9.16 minutes.

The **metoprolol** expired during the time between the neat and extracted samples. It was run on GCMS 15-2 on 9/20/22 to demonstrate that the CRM was still positive for metoprolol.

Analytes that elute close to target analytes

The following compounds will be prepared at a low and high concentration and spiked into blank blood that has been fortified with panel analytes at concentrations across the calibration curve.

Compound	Lot number	Low (ng/mL)	High (ng/mL)
$\Delta 8$ -THC-OH	0645712-1	2	16
$\Delta 8$ -THC-COOH	0636840-1	10	80
exo-THC	0648522-1	10	80

The Δ^8 -THC-OH high was prepared by performing a 1:10 dilution by adding 10 μL of standard to 90 μL of methanol. The high mixture was prepared by adding 4 μL of the 1:10 dilution mix to 996 μL of methanol. The low mixture was prepared by adding 125 μL of the high mixture to 875 μL of methanol.

The Δ^8 -THC-COOH and exo-THC were prepared in the same mixture. The high mixture was prepared by adding 2 μL of each compound to 996 μL of methanol. The low dilution mixture was prepared by adding 125 μL of the high dilution to 875 μL of methanol.

Pipettes 064, 065 and 068 were used in this process.

Methanol lot 22D2062006-13 was used to prepare the mixtures.

The following samples were extracted using the LC-Cannabinoid extraction method and run on LCMSMS 21-1

Standard 1
Standard 2
Standard 3
Standard 4
Standard 5
Standard 6
Negative
Medium
5 μL standard 1 injection
Low Interference
High Interference
Standard 1 Low
Standard 1 High
Standard 2 Low
Standard 2 High
Standard 3 Low
Standard 3 High
Standard 4 Low
Standard 4 High
Standard 5 Low
Standard 5 High
Standard 6 Low
Standard 6 High

The presence of Δ^8 -hydroxy-tetrahydrocannabinol and Δ^8 -carboxy-tetrahydrocannabinol may interfere with Δ^9 -hydroxy-tetrahydrocannabinol and Δ^9 -carboxy-tetrahydrocannabinol, respectively. The presence of exo-tetrahydrocannabinol may interfere with Δ^9 -tetrahydrocannabinol.

Due to these interferences the following reporting criteria have been implemented for this method:

If either of the Δ 8-THC metabolites and Δ 9-THC metabolites are present in the same sample, Δ 9-THC metabolites cannot be reported. In those instances, the language on the reports shall state: "specific Δ 9-THC metabolite" was not able to be reported due to an interfering substance. For additional information contact this laboratory."

It is noted that there may be instances when both Δ 8 and Δ 9 metabolites are present and have sufficient baseline resolution to report the Δ 9 metabolites. There is a risk with the approach taken that Δ 9 metabolites may be reported as false negatives, the laboratory accepts this risk.

Validation demonstrated that ≥ 10 ng/mL of exo-tetrahydrocannabinol interferes with Δ 9-THC, at all calibration levels. When both analytes are present in the same sample, the report shall state: " Δ 9-THC was not able to be reported due to an interfering substance. For additional information contact this laboratory."

Ion Suppression and Enhancement:

To evaluate ion suppression and enhancement four sets of samples were prepared.

Set A Low – Low concentration neat standards

6, 20 μ L aliquots of the LC-Cannabinoid Low standard and internal standard (prepared in ACN) were pipetted into individual 16x100mm culture tubes then 40 μ L of 0.1% formic acid in water was added to each tube. Samples were vortexed and transferred to autosampler vials.

Set A High – High concentration neat standards

6, 20 μ L aliquots of the LC-Cannabinoid High standard and internal standard (prepared in ACN) were pipetted into individual 16x100mm culture tubes then 40 μ L of 0.1% formic acid in water was added to each tube. Samples were vortexed and transferred to autosampler vials.

Set B low – Low concentration Post-Extraction spike

10 unique negative blood samples were selected and used to prepare two samples for each lot following the LC-Cannabinoid extraction procedure. 20 μ L of the low standard and 20 μ L of internal standard (prepared in ACN) was added into each sample after the dry step, then 40 μ L of 0.1% formic acid in water was added to each tube. Samples were vortexed and transferred to autosampler vials.

Set B high – High concentration Post-Extraction spike

10 unique negative blood samples were selected and used to prepare two samples for each lot following the LC-Cannabinoid extraction procedure. 20 μ L of the high standard and 20 μ L of internal standard (prepared in ACN) was added into each sample after the dry step, then 40 μ L of 0.1% formic acid in water was added to each tube. Samples were vortexed and transferred to autosampler vials.

Data file name: 20220913 Ion suppression and enhancement

Sample name format: Low/High Neat 1-6, (Blank blood lot number) Low/High A/B

The following equation was used to determine the ion suppression or enhancement percentage (ICE%)

$$\text{Ion suppression or enhancement \%} = \left(\frac{\text{Mean area of set 2}}{\text{Mean area of set 1}} - 1 \right) \times 100$$

Set 1 are the unextracted neat standards. Set 2 are the post extract spike samples.

The following table summarizes the results from the ion suppression or enhancement study.

Sample Name	Component Name	ISE %
Low	THC-COOH 1	-10.22
Low	THC-COOH 2	-9.76
Low	THC-COOH-D3	-14.50
Low	THC-OH 1	7.61
Low	THC-OH 2	11.88
Low	THC-OH-D3	3.62
Low	Δ 8-THC 1	-40.44
Low	Δ 8-THC 2	-38.32
Low	Δ 8-THC-D3	-39.25
Low	Δ 9-THC 1	-42.04
Low	Δ 9-THC 2	-42.12
Low	Δ 9-THC-D3	-43.01
High	THC-COOH 1	-7.93
High	THC-COOH 2	-7.82
High	THC-COOH-D3	-9.43
High	THC-OH 1	6.29
High	THC-OH 2	6.07
High	THC-OH-D3	6.89
High	Δ 8-THC 1	-35.43
High	Δ 8-THC 2	-33.79
High	Δ 8-THC-D3	-33.27
High	Δ 9-THC 1	-37.94
High	Δ 9-THC 2	-37.41
High	Δ 9-THC-D3	-38.51

The following table shows the %CV for each set of samples.

Sample Name	Component Name	%CV	Sample Name	Component Name	%CV
Extracted High	THC-COOH 1	3.03	Extracted High	$\Delta 8$ -THC 1	22.96
Extracted Low	THC-COOH 1	3.65	Extracted Low	$\Delta 8$ -THC 1	28.61
High Neat	THC-COOH 1	0.64	High Neat	$\Delta 8$ -THC 1	1.10
Low Neat	THC-COOH 1	1.05	Low Neat	$\Delta 8$ -THC 1	1.16
Extracted High	THC-COOH 2	3.18	Extracted High	$\Delta 8$ -THC 2	22.72
Extracted Low	THC-COOH 2	4.59	Extracted Low	$\Delta 8$ -THC 2	27.65
High Neat	THC-COOH 2	0.76	High Neat	$\Delta 8$ -THC 2	1.36
Low Neat	THC-COOH 2	0.59	Low Neat	$\Delta 8$ -THC 2	0.83
Extracted High	THC-COOH-D3	4.55	Extracted High	$\Delta 8$ -THC-D3	21.45
Extracted Low	THC-COOH-D3	12.67	Extracted Low	$\Delta 8$ -THC-D3	29.62
High Neat	THC-COOH-D3	0.95	High Neat	$\Delta 8$ -THC-D3	1.47
Low Neat	THC-COOH-D3	1.23	Low Neat	$\Delta 8$ -THC-D3	0.99
Extracted High	THC-OH 1	2.63	Extracted High	$\Delta 9$ -THC 1	21.39
Extracted Low	THC-OH 1	3.15	Extracted Low	$\Delta 9$ -THC 1	28.12
High Neat	THC-OH 1	2.42	High Neat	$\Delta 9$ -THC 1	0.84
Low Neat	THC-OH 1	1.59	Low Neat	$\Delta 9$ -THC 1	0.45
Extracted High	THC-OH 2	2.09	Extracted High	$\Delta 9$ -THC 2	21.88
Extracted Low	THC-OH 2	9.34	Extracted Low	$\Delta 9$ -THC 2	27.70
High Neat	THC-OH 2	1.82	High Neat	$\Delta 9$ -THC 2	1.13
Low Neat	THC-OH 2	1.32	Low Neat	$\Delta 9$ -THC 2	0.66
Extracted High	THC-OH-D3	2.35	Extracted High	$\Delta 9$ -THC-D3	21.65
Extracted Low	THC-OH-D3	11.09	Extracted Low	$\Delta 9$ -THC-D3	29.78
High Neat	THC-OH-D3	1.38	High Neat	$\Delta 9$ -THC-D3	0.53
Low Neat	THC-OH-D3	2.43	Low Neat	$\Delta 9$ -THC-D3	0.66

For several analytes, Ion Suppression falls outside of $\pm 25\%$, and %CV exceeds 20% in a few rare instances. ASB 036 directs that when this occurs there are critical validation parameters, such as LOD and LLOQ, that must be evaluated. The LOD and LLOQ were not adversely impacted. Additionally, to reduce the impact of ion suppression and enhancement, matrix matched calibrators and controls are utilized, as well as analyte specific deuterated internal standards.

Limit of Detection:

LOD

If all acceptance criteria are met, and the analyte signal is $> 3.3x$ instrument noise, the LOD is administratively set at $0.5x$ the concentration of standard 1. A LOD determination with decreasing concentrations was not conducted, as nothing below $0.5x$ of standard 1 will be reported. A $0.4x$ standard 1 sample was analyzed, to evaluate whether that concentration would pass all acceptance criteria, providing additional confidence that the administratively set level of $0.5x$ of standard 1 is

reliable. Three batches of the following samples were prepared following the LC-Cannabinoid procedure to determine the LOD:

Standard 1-6

Low

Medium

High

Negative

0.5x Standard 1 in duplicate in 3 lots of blank blood

0.4x Standard 1 in duplicate in 3 lots of blank blood

Standards:

Standards were prepared in the following manner, and 20 μ L of the appropriate standard was used in sample preparation.

Intermediates				
	[CRM] (ng/mL)	CRM Volume (μ L)	[Intermediate] (ng/mL)	Intermediate Volume (μ L)
Δ 9-THC, Δ 8-THC, THC-OH	1000000	25	5000	5000
THC-COOH	1000000	62.5	12500	5000

0.5x Standard 1				
	[Intermediate] (ng/mL)	Intermediate Volume (μ L)	[Standard] (ng/mL)	Standard Volume (μ L)
Δ 9-THC, Δ 8-THC, THC-OH	5000	12.5	12.5	5000
THC-COOH	12500	25	62.5	5000

0.4x Standard 1				
	[Intermediate] (ng/mL)	Intermediate Volume (μ L)	[Standard] (ng/mL)	Standard Volume (μ L)
Δ 9-THC, Δ 8-THC, THC-OH	5000	10	10	5000
THC-COOH	12500	20	50	5000

Data file names: 20220919JLG LOD, 20220919TSF LOD, 20220920SK LOD

THC-OH did not pass the quality requirements necessary to set the LOD at 0.5x standard 1. The administrative LOD for THC-OH will be set at the LLOQ, 1 ng/mL. The remaining samples passed all

quality requirements at both the 0.5x and 0.4x standard 1 concentrations, thus the LOD will be administratively set at 0.5x standard 1. The final concentrations are listed below:

Analyte	Concentration (ng/mL)
Δ9-THC	0.5
Δ8-THC	0.5
THC-COOH	2.5

Stability:

The purpose of this component of the validation is to determine whether samples which are extracted one day can be run on a different day without jeopardizing the integrity of the result.

LC-Cannabinoids Validation – Stability

The stability was run on three consecutive days and again on day 5 and 6. The first day (day 0) was used to establish the initial area ratio (analyte area/internal standard area) that was used to compare the remaining days results. The low and high control were used to spike into the blank blood. Multiple replicates (six each) were made at each level to ensure enough final sample volume was available to perform the required six days of injections. The final reconstitution mixture of each level was pooled together, vortexed and aliquoted into six individual sampler vials and placed into the instrument's sample tray. The instrument was prepared for a run on each day following typical procedures. On each day one of the vials for each level was injected three times.

Due to a scheduled power outage on day 3, samples were removed from the autosampler and put into biological storage 2 (4°C) until Day 5.

The data was compiled in the following way. Using the MultiQuant processing method all analytes were processed. The area ratio values were copied and tabulated in an Excel spreadsheet. For each set of data, the following Excel formula was used to evaluate the area ratios:

$$\frac{\text{Avg}(\text{Area ratio of analyte on Day}_n)}{\text{Avg}(\text{Area ratio of analyte on Day}_0)} * 100$$

The summary is below:

		Day 0-1	Day 0-2	Day 0-5	Day 0-6
Low	THC-COOH 1	97.09793	98.24561	97.37095	98.23045
High	THC-COOH 1	97.61579	98.01756	98.24485	97.53563
Low	THC-OH 1	112.7695	104.0114	118.9036	105.1646
High	THC-OH 1	103.5094	100.8778	104.208	103.4696
Low	Δ8-THC 1	100.6116	97.55352	95.47401	101.1009
High	Δ8-THC 1	100.2864	99.74769	96.89815	100.4205

Low	$\Delta 9$ -THC 1	100.7921	98.56436	109.1089	107.3267
High	$\Delta 9$ -THC 1	100.0692	98.68362	107.8581	106.4564

Samples analyzed using this method were stable for 6 days, post extraction. After the samples were analyzed on the third day, there was a power outage in the laboratory, requiring the samples to be removed from the instrument autosampler (15 °C) and placed into refrigerated storage (4 °C). As the samples were not stored consistently, the stability is being set at 3 days only.

Casework Correlations:

The laboratory did not conduct a casework correlation study of its own previously analyzed samples. The laboratory instead included challenge samples from external laboratories and previously analyzed proficiency test samples. The results of these samples correlate well with the original results, factoring in the amount of time the samples were in storage.

Limitations:

Interference studies were conducted with a combination of approximately two-hundred-fifty over the counter, prescription, and illicit drugs. While this study included many drugs that are expected to be encountered in routine casework, it did not include every possible known substance that an individual could be exposed to. The drugs included in the interference study did not cause any false positive drug results for the analytes of interest.

The presence of $\Delta 8$ -hydroxy-tetrahydrocannabinol and $\Delta 8$ -carboxy-tetrahydrocannabinol may interfere with $\Delta 9$ -hydroxy-tetrahydrocannabinol and $\Delta 9$ -carboxy-tetrahydrocannabinol, respectively. The presence of exo-tetrahydrocannabinol may interfere with $\Delta 9$ -tetrahydrocannabinol.

Carryover was assessed after analyzing standards that were ten times higher than standard six. No carryover existed in blank samples analyzed immediately afterward. To be conservative, analyte/internal standard area ratios higher than five times standard six shall result in the reinjection of the next casework sample.

Discussion:

It is my opinion, based on data review, statistical analysis, ASB Standard 036, ASB Standard 054, ISO 17025, and the AR3125 requirements that LCMSMS-21-1 is approved for confirmatory analysis of cannabinoids in blood. This validated method is fit for its intended purpose.